CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, May 23, 1907.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
May				
25—	Dredging	Boston, Mass	S. & B. S	5- 2
•27—	Pier superstructure	Harbor Beach, Mich	S. & B. S	4-25
28—	Sewers	St. Joseph, Mich	S. & B. S	5- 2
•28—	Canal, etc.	Belle Fourche, S. Dak.	S. & B. S	4-25
•31—	Dredging	Tarrytown, N. Y	S. & B. S	5- 2
June				
1—	Power plant apparatus	Portsmouth, N. H.	S	5- 2
1—	Motor generator sets	New York, N. Y.	S	5- 2
1—	Laundry	Portsmouth, N. H	S	5- 2
•1—	Harbor excavation	Buffalo, N. Y.	S. & B. S	5- 2
1—	Dam	Portland, Ore	S. & B. S	4-25
•1—	Sewer outlet	Ft. Monroe, Va	S	5- 2
•3—	Water pipe, etc.	Philadelphia, Pa.	P., S. & B. S.	5-23
•5—	Trestle, rock work,	Portland, Ore.	P., S. & B. S.	5-16
•6—	Lighting plant	Dora, Ala	P., S. & B. S.	5-23
•6—	Dike	Grand Chain, Ill	S. & B. S	5-16
17—	Jetty	Portland, Ore	S. & B. S	5-23

•Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work. Place.	On file. See issue
May 24.	Lighting fixtures, Washington, D. C.	May 9
May 27.	Light plant, Farnham, Que	May 16
May 28.	Supplies, Washington, D. C.	May 16
May 28.	Equipment, New York, N. Y.	May 16
May 28.	Dam, power-house, Fergus Falls, Minn.	May 16
	Advertised, Eng. News, May 16 and 23.	
May 29.	Gas franchise, Clifton Forge, Va	May 9
May 29.	Electrical apparatus, Chicago, Ill	May 2
June 1.	Motor generator sets, New York, N. Y.	May 2
June 1.	Power plant apparatus, Portsmouth, N. H.	May 2
June 1.	Electric fixtures, Fort Wood, N. Y	Apr. 18
June 1.	Electric plant, Lawrence, Ind	May 9
June 1.	Lighting, Fort Strong, Mass	May 16
June 1.	Lighting, Madison Barracks, N. Y	May 23
	Advertised, Eng. News, May 23.	
June 3.	Wiring, etc., Washington, D. C	May 9
	Advertised, Eng. News, May 9 to 30.	
June 6.	Lighting plant, Dora, Ala	May 16
	Advertised, Eng. News, May 16 and 23.	
June 10.	Smokestack, Ft. Adams, R. I	May 16
June 11.	Supplies, Washington, D. C	May 16
June 11.	Light, Macon, Ga	May 23
June 12.	Light plant, Fort Wayne, Ind	May 2
June 14.	Equipment, Philadelphia. Pa	May 16
	Advertised, Eng. News, May 16 to June 13.	

BRIDGES.

Bids close.	Work. Place.	See issue
May 24.	Viaduct, Milwaukee, Wis	May 16
	Advertised, Eng. News, May 16.	
May 24.	Bridges, Reading, Pa	May 16
	Advertised, Eng. News, May 16.	
May 24.	Bridge, Holladay, Va	May 16
May 25.	Bridges, Cleveland, Ohio	May 16
May 25.	Bridge, Logan, Ohio	May 9
May 25.	Bridges, Enterprise, Ohio	May 23
May 27.	Bridge, Oakland, Cal	May 23
May 27.	Arch, etc., Canandaigua, N. Y	May 9
	Advertised, Eng. News, May 2-9.	
May 27.	Superstructures, etc., Chillicothe, Ohio	May 2
May 27.	Bridge, New Haven, Conn	May 16
	Advertised, Eng. News, May 16.	
May 27.	Bridge, Pittsburg, Pa	May 16
May 28.	Bridges, etc., Paulding, Ohio	May 23
May 28.	Bridge, Coffeyville, Kan	May 23
May 29.	Bridge painting, Emporia, Kan	May 23
May 31.	Steel shapes, etc., New York, N. Y	May 23
May 31.	Bridge, La Crosse, Wis	May 23
June 1.	Removing bridge, Washington, D. C	May 23
	Advertised, Eng. News, May 23 and 30.	
June 2.	Bridges, Anniston, Ala	May 23
June 3.	Bridge, Alexandria, La	May 23
	Advertised, Eng. News, May 23.	
June 3.	Bridges, Dillon, Mont	May 16
June 3.	Sub & superstructures, Wapakoneta, Ohio	May 16
June 3.	Bridge, Colfax, La	May 16
June 4.	Bridge, Pensacola, Fla	Apr. 18
	Advertised, Eng. News, Apr. 18.	
June 4.	Bridge, San Jose, Cal	May 23
June 4.	Bridge, Toms River, N. J	May 23
June 4.	Superstructure, Cincinnati, Ohio	May 23
	Advertised, Eng. News, May 23.	
June 5.	Trestle, etc., Portland, Ore	May 9
	Advertised, Eng. News, May 9-30.	
June 6.	Bridges, Ebensburg, Pa	May 23
June 10.	Superstructure, Parkersburg, W. Va	May 23
	Advertised, Eng. News, May 23.	
June 14.	Bridge flooring, Knoxville, Tenn	May 23
	Advertised, Eng. News, May 23 and 30.	
June 15.	Trestle, etc., Ft. Dade, Fla	May 16
	Advertised, Eng. News, May 16 to June 6.	
June 25.	Bridge, National Soldiers' Home, Tenn	May 23
June 26.	Bridges, etc., Mitchell, Neb	May 9
	Advertised, Eng. News, May 9-30.	
July 8.	Superstructures, Fredericton, N. B	May 23

BUILDINGS.

Bids close.	Work. Place.	See issue
May 27.	Custom house, Washington, D. C	May 2
May 27.	Schools, New York, N. Y	May 16
May 28.	Post-office, New York, N. Y	May 2
May 31.	Bakery machinery, Des Moines, Idaho	May 9
June 1.	Heating, Ft. McPherson, Ga	May 2
June 1.	Laundry, Portsmouth, N. H	May 2
June 4.	University buildings, University, N. Dak	May 23
June 4.	State Capitol, Pierre, S. Dak	Mar. 7
June 4.	State Capitol, Pierre, S. Dak	Mar. 7
June 5.	Additions, Binghamton, N. Y	May 23
	Advertised, Eng. News, May 23 and 30.	
June 5.	Grain elevator, Montreal, Que	May 16
June 6.	Post office, Wichita, Kan	May 9
	Advertised, Eng. News, May 9-16.	
June 11.	Heating, etc., Seattle, Wash	May 16
	Advertised, Eng. News, May 16 and 23.	
June 13.	Post office, Meriden, Conn	May 9
	Advertised, Eng. News, May 9 and 16.	
June 15.	Ice plant, etc., Fort Dade, Fla	May 16
	Advertised, Eng. News, May 16 to June 6.	
June 17.	Post-office, Webster City, Iowa	May 16
June 24.	Post-office, Ogden, Utah	May 16
June 20.	School, Bayonne, N. J	May 16
	Advertised, Eng. News, May 16 to 30.	
July 1.	Pulp plant, Niagara Falls, N. Y	May 2

WATER SUPPLY AND IRRIGATION.

Bids close.	Work. Place.	See issue
May 24.	Water-works, Zumbro Falls, Minn	May 16
May 24.	Pipe, etc., St. Louis, Mo	May 23
May 25.	Cast-iron pipe, East Cleveland, Ohio	May 23
May 27.	Laying pipe, etc., Dover, N. J	May 23
May 27.	Buildings, wells, etc., Cincinnati, Ohio	May 2
	Advertised, Engineering News, May 2 to 16.	
May 28.	Canal, etc., Belle Fourche, S. Dak	Apr. 25
	Advertised, Eng. News, Apr. 25 to May 16.	
May 28.	Water-works, Comanche, Ind. T	May 16
	Advertised, Eng. News, May 16 and 23.	
May 29.	Water mains, New York, N. Y	May 16
May 29.	Pipe, etc., Nyack, N. Y	May 23
May 30.	Water-works, Thomas, Okla	May 16
	Advertised, Eng. News, May 16 and 23.	
May 31.	Reservoir, Belding, Mich	May 16
	Advertised, Eng. News, May 16.	
May 31.	Pipe, etc., Cincinnati, Ohio	May 16
May 31.	Laying pipe, Cincinnati, Ohio	May 9
June 1.	Ditch, Des Moines, Iowa	May 16
June 1.	Cast-iron pipe, Brewster, N. Y	May 23
	Advertised, Eng. News, May 23.	
June 3.	Reservoir, etc., Brewster, N. Y	May 23
	Advertised, Eng. News, May 23.	
June 3.	Water-works, Bigtimber, Mont	May 16
June 3.	Water-works, Nacogdoches, Tex	May 16
	Advertised, Eng. News, May 16 to 30.	
June 3.	Water pipe, Philadelphia, Pa	May 16
	Advertised, Eng. News, May 16 to 30.	
June 3.	Well, etc., Fort Bliss, Tex	May 21
June 4.	Engine, Atlantic City, N. J	May 9
	Advertised, Eng. News, May 9-16.	
June 4.	Water mains, Alexandria, La	May 16
June 5.	Dike, Crawford, Neb	Mar. 21
	Advertised, Eng News, Mar 21 to Apr. 11.	
June 5.	Filter plant, Burlington, N. J	Apr. 25
	Advertised, Eng. News, Apr. 25 to May 30.	
June 5.	Reservoir, Dillon, Mont	May 23
June 8.	Water meters, Washington, D. C	May 23
	Advertised, Eng. News, May 23 and 30.	
June 10.	Pipe, Belle Fourche, S. Dak	May 23
	Advertised, Eng. News, May 23 to June 6.	
June 10.	Filters, West Point, N. Y	May 23
	Advertised, Eng. News, May 23 to June 6.	
June 11.	Ditch, Logansport, Ind	May 23
June 15.	Tank, etc., Ft. Dade, Fla	May 23
June 17.	Pumping engine, Bellaire, Ohio	May 16
	Advertised, Eng. News, May 16 to June 6.	
June 19.	Water-works, etc., Romney, W. Va	Apr. 25
June 28.	Laying pipe, etc., Passaic, N. J	May 16
	Advertised, Eng. News, May 16 to June 27.	
June 29.	Filtration plant, Sandusky, Ohio	May 23
July 1.	Dam, Portland, Ore	Apr. 25

SEWERAGE.

Bids close.	Work. Place.	See issue
May 25.	Septic tanks, Grinnell, Iowa	May 23
May 27.	Sewers, Latrobe, Pa	May 23
May 27.	Sewer, Washington, D. C	May 16
	Advertised, Eng. News, May 16 and 23.	
May 27.	Manhole covers, etc., New York, N. Y.	May 16
May 28.	Sewer, etc., New York, N. Y	May 16
May 28.	Sewers, St. Joseph, Mich	May 2
May 28.	Sewer, St. Louis, Mo	May 23
May 29.	Sewers, New York, N. Y	May 23
May 29.	Sewers, Aberdeen, Wash	May 9
May 30.	Sewers, Norfolk, Va	May 2
	Advertised, Eng. News, May 2-23.	
May 30.	Sewers, East Liverpool, Ohio	May 23
May 31.	Sewers, Dowagiac, Mich	May 16
May 31.	Sub-sewer, Bellingham, Wash	May 16
June 1.	Sewers, etc., Morristown, N. J	May 16
	Advertised, Eng. News, May 16 and 23.	
June 1.	Sewer outlet, Ft. Monroe, Va	May 2
	Advertised, Eng. News, May 2-23.	
June 3.	Sewers, Cape Girardeau, Mo	May 9
June 3.	Sewers, Caney, Kan	May 9
June 4.	Sewers, Fairbury, Neb	May 9
June 4.	Sewer pipe, Alexandria, La	May 2
June 4.	Sewers, etc., Springfield, Ohio	May 16
	Advertised, Eng. News, May 16 and 23.	
June 4.	Sewers, University, N. Dak	May 23
June 4.	Sewers, New York, N. Y	May 23
June 6.	Sewer, Parkersburg, Va	May 16
	Advertised, Eng. News, May 16 and 23.	
June 7.	Sewer, St. Louis, Mo	May 23
June 9.	Sewers, McKeesport, Pa	May 23
June 10.	Sewers, etc., Houston, Tex	May 23
June 12.	Sewers, New York, N. Y	May 23
	Advertised, Eng. News, May 23 to June 6.	
June 18.	Sewers, Ottawa, Ill	May 23
	Advertised, Eng. News, May 23 to June 6.	

STREETS AND ROADS.

Bids close.	Work. Place.	See issue
May 24.	Paving, etc., Louisville, Ky	May 16
May 24.	Road, Williamsport, Pa	May 16
May 27.	Paving, Halifax, N. S	May 16
	Advertised, Eng. News, May 16.	
May 27.	Paving, etc., Cincinnati, Ohio	May 16
May 27.	Paving, etc., Lindsley, Ohio	May 16
May 27.	Paving, etc., New York, N. Y	May 16
May 27.	Curb, etc., Albert Lea, Minn	May 2
May 27.	Paving, etc., Ebensburg, Pa	May 23
May 28.	Paving, etc., La Crosse, Wis	May 23
May 28.	Paving, etc., Gary, Ind	May 23
May 28.	Paving, Garrett, Ind	May 23
May 28.	Road, Danville, Ind	May 23
May 28.	Paving, etc., Cincinnati, Ohio	May 16
May 28.	Broken stone, etc., New York, N. Y.	May 16
May 29.	Paving, Glens Falls, N. Y	May 16
	Advertised, Eng. News, May 16.	
May 29.	Sidewalks, Louisville, Ky	May 23
June 1.	Paving, Cadiz, Ohio	May 23
	Advertised, Eng. News, May 23 and 30.	
June 1.	Roads, etc., Ft. Meade, S. Dak	May 23
June 1.	Roads, Sedalia, Mo	May 23
June 1.	Roads, etc., Whipple Barracks, Ariz	May 23
June 1.	Paving, etc., Cleveland, Ohio	May 16
June 1.	Sidewalks, Ft. D. A. Russell, Wyo	May 9
June 1.	Sidewalks, Ft. Logan H. Roots, Ark	May 9
June 1.	Sidewalks, etc., Ft. Mott, N. J	May 9
	Advertised, Eng. News, May 9 and 16.	
June 1.	Roads, etc., Ft Screven, Ga	May 9
June 1.	Paving, etc., Indianapolis, Ind	May 9
June 1.	Macadam, Ft. Hancock, N. J	May 2
	Advertised, Eng. News, May 2-23.	
June 3.	Sidewalk, Pleasant Ridge, Ohio	May 16
June 3.	Paving, etc., Sandusky, Ohio	May 16
June 3.	Paving, Belvidere, N. J	May 16
June 3.	Roads, Greensburg, Ind	May 16
June 3.	Macadam, etc., English, Ind	May 16
June 3.	Repairing pavement, New York, N. Y.	May 23
June 3.	Paving, etc., Montgomery, Ala	May 23
June 4.	Sidewalks, Palatka, Fla	May 23
June 4.	Improving roadbed, San Jose, Cal	May 23
June 4.	Paving, etc., Piqua, Ohio	May 16
June 4.	Highway, Ashland, Ohio	May 16
June 4.	Paving, etc., New York, N. Y	May 23
June 5.	Paving, etc., New York, N. Y	May 23
June 5.	Roads, Concord, N. H	May 23
June 5.	Paving, etc., Cincinnati, Ohio	May 23
June 6.	Sidewalks, Carterville, Mo	May 23
June 6.	Highway, Cambridge, Ohio	May 16
June 10.	Grading, etc., Salem, N. J	May 23
	Advertised, Eng. News, May 23 to June 6.	
June 11.	Highway, Chardon, Ohio	May 23
June 12.	Roads, Freehold, N. J	May 16
	Advertised, Eng. News, May 16 to June 6.	
June 13.	Highway, Zanesville, Ohio	May 23
June 14.	Paving, Caldwell, Ohio	May 23
June 25.	Paving, etc., Reynoldsville, Pa	May 9

MISCELLANEOUS CONTRACTS.

Bids close.	Work. Place.	See issue
May 24.	Fire engines, etc., Washington, D. C	May 16
May 24.	Levee bldg. machine, New Orleans, La.	May 2
	Advertised, Eng. News, May 2-16.	
May 25.	Dredging, Boston, Mass	May 2
May 25.	Ditch, Vandalia, Ill	May 9
May 25.	Crematorium, Washington, D. C	May 16
	Advertised, Eng. News, May 16 and 23.	
May 27.	Dredging, New York, N. Y	May 2
	Advertised, Eng. News, May 2 to May 23.	
May 27.	Pier superstructure, Harbor Beach, Mich.	Apr. 25
	Advertised, Eng. News, Apr. 25 to May 16.	
May 28.	Caisson, Philadelphia, Pa	May 16
	Advertised, Eng. News, May 16 and 23.	
May 28.	Retaining wall, Oneida, N. Y	May 16
May 29.	Dredging, Galveston, Tex	May 16
May 29.	Breakwater, Petoskey, Mich	May 16
	Advertised, Eng. News, May 16 and 23.	
May 29.	Creosoted lumber, rubble stone, Charleston, S. C.	May 9
	Advertised, Eng. News, May 9 to 23.	
May 29.	Vacuum plant, New York, N. Y	May 23
May 29.	Scales, Scottdale, Pa	May 23
May 29.	Canal, Peterboro, Ont	May 23
May 29.	Dredging, Chicago, Ill	May 23
May 31.	Dredging, Tarrytown, N. Y	May 2
	Advertised, Eng. News, May 2 to May 23.	
May 31.	Filtering materials, Philadelphia, Pa	May 16
	Advertised, Eng. News, May 16 to 30.	
June 1.	R. R. grading, Louisiana	May 23
	Advertised, Eng. News, May 23 and 30.	
June 1.	Harbor excavation, Buffalo, N. Y	May 2
	Advertised, Eng. News, May 2 to May 23.	
June 1.	Repairing Statue of Liberty, New York.	May 9
June 1.	Wharf repairs, Ft. Washington, Md	May 9
June 1.	Levee, Memphis, Tenn	May 9
	Advertised, Eng. News, May 9 to 23.	
June 1.	Breakwater superstructure, Oswego, N. Y.	May 9
	Advertised, Eng. News, May 9 to 30.	
June 3.	Dredging, Baltimore, Md	May 9
	Advertised, Eng. News, May 9 to 30.	
June 4.	Lock and dam. Irvine, Ky	May 9
	Advertised, Eng. News, May 9 to 23.	
June 4.	Bulkheads, San Jose, Cal	May 23
June 5.	Coal-hoisting tower, Tiburon, Cal	May 23
	Advertised, Eng. News, May 23 and 30.	
June 5.	Trestle rock work, Portland, Ore	May 16
June 5.	Scows, New York, N. Y	May 23
June 6.	Dredging plant, Detroit, Mich	May 16
June 6.	Riprap, Ashland, Wis	May 9
	Advertised, Eng. News, May 9 to 30.	
June 6.	Dike, Grand Chain, Ill	May 9
	Advertised, Eng. News, May 9 to 30.	
June 7.	Riprap, Bridgeport, Conn	May 9
	Advertised, Eng. News, May 9 to 30.	
June 7.	Dredge, Philadelphia, Pa	May 2
	Advertised, Eng. News, May 2 to May 23.	
June 7.	Riprap, Washington, D. C	May 16
	Advertised, Eng. News, May 16 to June 6.	
June 8.	Levee, New Orleans, La	May 23
June 10.	Shelter for trucks, Fort Totten, N. Y	May 16
	Advertised, Eng. News, May 16 to June 6.	
June 13.	Hydraulic dredge, Washington, D. C	May 16
	Advertised, Eng. News, May 16 to June 6.	
June 12.	Light vessels, Washington, D. C	May 23
June 12.	Dredging, San Diego, Cal	May 23
June 12.	Lock-gate, Pittsburg, Pa	May 23
June 13.	Sea-wall, San Francisco, Cal	May 23
June 13.	Subway, New York, N. Y	May 23
June 14.	Pontoons, Cincinnati, Ohio	May 23
	Advertised, Eng. News, May 23 to June 13.	
June 14.	Dams, shore protection, Rock Island, Ill.	May 16
	Advertised, Eng. News, May 16 to June 6.	
June 15.	Cement, Los Angeles, Cal	May 16
June 15.	Jetty work, Sabine Pass, Tex	May 16
	Advertised, Eng. News, May 16 to June 6.	
June 15.	Dredging, Hawaii	Apr. 25
June 15.	Lock-gates, etc., Nashville, Tenn	May 23
	Advertised, Eng. News, May 23 to June 13.	
June 15.	Steel tug, Duluth, Minn	May 23
	Advertised, Eng. News, May 23 to June 13.	
June 15.	Tunnel, Chattanooga, Tenn	May 23
	Advertised, Eng. News, May 23 to June 6.	
June 15.	Riprap, sea-wall, Winthrop, Mass	May 23
June 15.	Coal bunkers, Philadelphia, Pa	May 23
June 17.	Stone, Portland, Ore	May 23
	Advertised, Eng. News, May 23 to June 13.	
June 17.	Jetty, Portland, Ore	May 23
June 18.	Dikes, walls, Savannah, Ga	May 23
	Advertised, Eng. News, May 23 to June 13.	
June 19.	Dredging, New York, N. Y	May 23
	Advertised, Eng. News, May 23 to June 13.	
July 1.	Tunnel, New Zealand (Foreign)	Sept. 13
	Advertised, Eng. News, Sept. 13 to Mar. 14.	
Sept. 2.	Competitive plans for wharf, etc., Sweden (Foreign)	May 2
Sept. 2.	Timber, Portland, Ore	May 16

CIVIL SERVICE EXAMINATIONS.

Bids close.	Work. Place.	See issue
May 25.	Highway Inspector, Albany, N. Y	May 9
	Advertised, Eng. News, May 9.	
May 25.	Arch. Draftsman, Albany, N. Y	May 9
	Advertised, Eng. News, May 9.	
May 25.	Bridge Draftsman, Albany, N. Y	May 9
	Advertised, Eng. News, May 9.	
May 25.	Chainman, Albany, N. Y	May 9
	Advertised, Eng. News, May 9.	
May 25.	Engineering Examiner, Albany, N. Y	May 9
	Advertised, Eng. News, May 9.	
May 29.	Engr., Sawyer, Fort Defiance, Ariz	May 9
May 29.	Inspector of Construction, Sheridan, Wyo.	May 16
May 29.	Laboratory Asst., Washington, D. C	May 16
June 4.	Asst. Engr., New York, N. Y	May 9
	Advertised, Eng. News, May 9.	
June 5.	Computer, Washington, D. C	May 16
June 5.	Steam Fitter, Ft. Leavenworth, Kan	May 16
June 5.	Aid and Laboratory Apprentice, Washington, D. C	May 16

RAILWAYS.

ARIZONA.—A press report from Florence, Ariz., states that "the Ray and Gila Copper Companies have ordered hoisting engines to be placed in commission on their 2,000 acres of mineral ground at and surrounding Ray. The companies above named have also invited bids for the construction of a standard-gage railroad from Kelvin to Ray, Ariz., distant seven miles, and this road will be completed at the earliest possible date."

BATON ROUGE, HAMMOND & EASTERN.—We are officially informed that contract was let on May 10 to JOHN SCOTT & SONS, St. Louis, Mo., for construction of line extending from Baton Rouge to Hammond, La., 143 miles. Sol. Wexler, New Orleans, is Pres. C. H. Fisk, Hammond, La., is Ch. Engr. Noted on May 9.

BROXTON, HAZELHURST & SAVANNAH.—H. C. McFadden, Pres. and Gen. Mgr., Fitzgerald, Ga., announces that as soon as a charter can be secured, which is now being advertised, this company will change its name to the Fitzgerald, Ocilla & Broxton Railroad. Company has no intentions at present for extensions, but first will build up the property which it has purchased. The line extends from Broxton to Ocilla, Ga., 25 miles, with a branch to Fitzgerald, five miles. Company also has a lease of the line from Ocilla to Irwinville, ten miles, which it is operating. Noted on May 9.

BUCHANAN & DICKENSON.—Incorporated in Virgina to build a railroad 25 miles long in Dickenson and Buchanan Counties. Incorporators: Leon Isaacson, Pres.; John F. Hager, James G. Sercy, William F. Rapp, B. E. Whitman, Edward Lambert and G. F. Adams. Headquarters, Jane, Va.

CANADIAN NORTHERN.—The Toronto (Ont.) "Globe" states that "this company is to rebuild the Regina & Prince Albert branch this summer. Reconstruction of the line has commenced from Regina, Sask., and will be pushed as rapidly as possible till practically a new roadbed is built. Ties are being distributed and a construction gang with boarding car is now on the job. It will take 250,000 ties to complete the work. Heavy steel will be laid as far as Disley, and on certain other portions of the branch. All the line where the worst snow trouble was experienced last winter will be snowfenced this fall."

CAROLINA-TENNESSEE SOUTHERN.—A survey has been made from Franklin to Bushnell, N. C., 36¼ miles, but it is not yet decided when the line will be built. The maximum grade against loaded trains is .6 of 1%, and the maximum curve 10°.

DEERFIELD RIVER.—This road is to be built by the Deerfield Lumber Co. from Wilmington to Winhall, Vt., a distance of 30 miles. The line is under survey and construction is to begin immediately. William H. Wood is Pres., Cambridge, Mass.; George Bond, Ch. Engr.; A. N. Blamlin, Vice-Pres. and Gen. Mgr., Wilmington, Vt.

ELKIN & ALLEGHANY.—A. G. Click, Secy., Elkin, N. C., advises us that this line will be built from Elkin to Sparta, thence to connect with Norfolk & Western at Troutdale, Va., 50 or 60 miles. Grading will be done by convicts. Road will be operated by a large railway company as a feeder. Surveys are now under way. Right-of-way has not been secured. H. G. Chatham is Pres. and J. Morton Stephens is Ch. Engr., Elkin, N. C. Noted on May 2.

HOBOKEN MANUFACTURERS' R. R.—This company, which recently was incorporated to build a line through the manufacturing district of Hoboken, N. J., to connect with the Hoboken Shore Railroad, which extends from the piers of the steamship lines and warehouses in Hoboken and Weehawken, will have a capitalization of $800,000. Of this, $400,000 will be in stock and $400,000 in mortgage bonds secured by a mortgage on the company's property. The officers of the new corporation are R. M. Dickinson, Pres.; Charles F. McGuire, 911 Castle Point Terrace, Hoboken, Vice-Pres.; H. E. S. Wilson, 60 Eighth St., Hoboken, Secy., and Palmer Campbell, Treas. and Gen. Mgr. An officer of the new company is reported to have stated that the road will be in operation next fall. It will connect with the Pennsylvania, New York Central, Reading, Baltimore & Ohio, Erie, Lackawanna, Jersey Central, Lehigh Valley and West Shore roads.

IDAHO RY.—C. F. Hunt, Secy., Detroit, Mich., advises us that contract for grading has been awarded to L. G. WILKERSON & CO., Piasa, Ill. H. F. Bean, Jackson, Mich., is Ch. Engr. Noted fully last week.

INDIANAPOLIS, LOGANSPORT & CHICAGO.—Contracts probably will be let in July or August for building this line. The projected route is from Logansport, Ind., south through Young America, Russiaville, Kempton and Sheridan to Indianapolis, 68 miles. Maximum grades will be .7 of 1%, and maximum curves 3°. E. N. Talbot is Pres. and W. A. Osmer, Ch. Engr., Logansport, Ind.

KANSAS CITY, MEXICO & ORIENT.—A. E. Stilwell, Pres., Kansas City, Mo., has announced that all of the necessary material has been bought to place the line in operation from Emporia, Kan., south to San Angelo, Tex., this year. The company hopes to have the work finished so that by temporarily securing trackage rights from Wichita to El Dorado, 30 miles, and from Emporia to Kansas City, 114 miles, through trains may be run from Kansas City to San Angelo by the end of this year. Grading on this entire section, which will be 711 miles long, is about finished. The road is now in operation from Wichita south to Clinton, 192 miles, and from Knox City south to Sweetwater, 76 miles. The company also expects to connect the southern end of this road, in operation as far north as Eloro, with the Southern Pacific at Alpine, so that work can be started from that point to complete the gap of 229 miles between Alpine and San Angelo. M. P. Paret is Ch. Engr., Kansas City.

LOUISIANA.—The Southern Development Co. will be ready to let contracts about June 1 for 63 miles of grading for a steam railroad between Monroe, La., and Crossett and Hamburg, Ark. J. M. Parker, Gen. Mgr., P. O. Box 509, Monroe, La. (Advertised, Engineering News.)

E. W. Anderson, Secy. of the Monroe Progressive League, of Monroe, La., states that the proposed railroad connection which the league is endeavoring to have built is about seven miles long between the Tremont & Gulf Railroad and the Monroe & Southwestern Railway. W. T. Joyce is Pres. of the Tremont & Gulf Railroad at Eros, La.; and R. Hanson is Pres. of the Monroe & Southwestern at Monroe, La.

NEBRASKA, KANSAS & SOUTHERN.—Baxter L. Brown, Ch. Engr., 502 Laclede Bldg., St. Louis, Mo., advises us that preliminary survey is being made now for the line between Superior, Neb., and Garden City, Kan., 250 miles. Right-of-way is not secured. Date for letting contracts is indefinite. J. C. Hopper, Ness City, Kan., is Pres. As previously noted, this company was incorporated in Kansas under the title of the Nebraska, Kansas & Southwestern Ry., to build a railway from Superior, Neb., south through the counties of Jewell, Smith, Phillips, Rooks, Ellis, Trego and Ness, in Kansas. In Ness County the line will divide, one branch going south through Hodgeman, Ford and Meade or Clark Counties and on to Dalhart, Tex. The other branch will go southwest through Hodgeman, Gray, Haskell, Grant, to a point on the state line in Morton or Stanton Counties. The section from Stockton to Ness City, Kan., about 80 miles, is to be built first. Capital stock, $1,500,000. Directors: E. J. Williams, Stockton; John Q. Adams, Stockton; Chas. J. Shellenberger, Ransom; A. S. Foulks and J. C. Hopper, Ness City. F. T. Burnham is Secy., Beloit, Kan.

OKLAHOMA CENTRAL.—F. C. Hand, Ch. Engr., Purcell, Ind. T., advises us that grading is completed and that track and bridging work is completed for 14 miles and balance of construction is rapidly going ahead. The line will run from Purcell to Chickasha, Ind. T., 40 miles. It is proposed to reach Chickasha about July 1. Dorset Carter is Pres., at Purcell. Noted on April 18.

ROCKINGHAM & CASWELL.—This company, which proposes to build a line connecting Reidsville, Stoneville, Ieaksville, Spray, Wentworth and Yanceyville, N. C., has elected officers as follows: R. T. Williams, Pres.; R. D. Reid, of Wentworth, Vice-Pres.; H. A. Hayes, Secy., and Francis Womack, Treas. Reidsville, N. C., is company's headquarters. Noted on April 11.

SALEM FALLS CITY & WESTERN.—L. Gerlinger, Jr., Mgr., Dallas, Ore., states that this road is in operation from Dallas to Black Rock, Ore., 15 miles, and that surveys are being made for an extension from Black Rock to Siletz Bay, 30 miles. It is expected to build three or four miles of this extension this summer. J. P. Van Orsdel is Ch. Engr., Dallas, Ore.

ELECTRIC RAILWAYS.

AUGUSTA, ME.—The State Board of Railroad Commissioners has approved the amended petition of the Augusta & Waterville Railway Co. for the approval of the location of its proposed line between Augusta and Waterville on the east side of the Kennebec River. The change in the proposed route is at East Vassalboro.

BRIDGEPORT, CONN.—The resolution incorporating the Bridgeport & Danbury Electric Railway Co., which has passed both branches of the Legislature, will go to the Governor for approval. The road will run through the towns of Bridgeport, Trumbull, Monroe, Newtown, Bethel and Danbury, and the line will be about 20 miles long. It will run through a succession of populous communities, and will touch a territory that is now isolated from trolley facilities. The company has an authorized capitalization of $2,000,000. The incorporators are John T. King, Henry E. Reilly and William H. Marigold. Noted on April 25.

MOODUS, CONN.—At a recent meeting of the promoters of the Moodus & East Hampton Tramway Co., the company was formally organized and the following officers were elected: Pres., George F. Marshall, of Malden, Mass.; Secy. and Treas., Fred M Hoadley, of Providence; Directors, George F. Marshall, Fred M. Hoadley, of Providence; Charles H. Emily and E. W. Crocker, of Moodus; Fred A. Greene, of Providence.

WATERTOWN, N. Y.—Frank Barry, Secy. of the New York Northern R. R., 4 Flower Bldg., Watertown, writes us that capital is nearly all secured for construction work. The line will run from Watertown west to Henderson Harbor, N. Y., thence south to Oswego, 60 miles. Surveys are partly made and right-of-way is being secured. Foster P. Rhines is Pres., Watertown. Chief Engineer has not been appointed.

LANCASTER, PA.—The Lancaster & York Furnace St. Ry. Co. has filed notice of intention to extend the railway as follows: From its present terminus in Pequea to York Furnace, thence across the tracks of the Columbia & Port Deposit Railroad Co., thence across the Susquehanna River to York Furnace, in York County, and return by the same route. A street railroad will be extended from York to the terminus of this road at York Furnace, York County J. R. Kreider is Gen. Mgr., Millersville, Pa.

SALISBURY, N. C.—The Piedmont-Carolina Railway Co. has been chartered with authorized capital stock of $100,000 to build a street railway in Salisbury. The incorporators are T. H. Vandeford, W. F. Snyder and J. H. Horah. This company has been granted a franchise to build its proposed electric railway, twelve miles long, from Salisbury to South River and to the Piedmont toll bridge, on the Yadkin River. Work is to begin by October 1.

BALTIMORE, MD.—Surveys for the line of the Baltimore, Frederick & Hagerstown Electric Railway, which have been in progress for several months, under the direction of Westinghouse, Church, Kerr & Co., of New York, are reported to be about completed. The line will be 52 miles long, from Baltimore to Frederick, and will connect with the system of the United Railways & Electric Co., in Baltimore. The company was chartered several years ago with a capital stock of $15,000,000, and has a like amount of first mortgage 5 per cent. bonds authorized. It is understood to be the intention of the company to issue only about $10,000,000 of its bonds at this time. The officers of the company are: James E. Ingram, Jr., Baltimore, Pres.; J. Roger McSherry, Frederick, Vice-Pres.; Henry Coblentz, Frederick, Secy.; Thomas H. Howard, Frederick, Treas.; Robert P. Graham, Baltimore, Counsel. The route from Baltimore to Hagerstown will be about 78 miles, and the original plans called for two tunnels—one at Braddock Heights, about five miles from Frederick, 4,000 ft. long, and the other at South Mountain, about 6,000 ft. long.

CLARKSDALE, MISS.—The Lake View Traction Co., which proposes to build an electric railway from Clarksdale to Memphis, Tenn., has elected the following officers: R. F. Tate, Pres.; H. E. Craft, Vice-Pres.; W. E. Willett, Secy. and Gen. Mgr.; A. Walsh, Treas.; Hon. W. A. Percy, Gen. Attorney. Directors: Walter Goodman, M. J. Roach, G. W. Agee, D. S. Weaver and Ed. Manigan. Noted on May 9.

ABERDEEN, MISS.—The City Council has passed an ordinance granting right-of-way to the Columbus, Pensacola & Memphis Railway Co., providing that a line shall be in operation from Aberdeen to Columbus, Miss., by January 1, 1909.

CHATTANOOGA, TENN.—The Chattanooga Railways Co. has applied to the City Council for a franchise to build an extension on the west side. D. J. Duncan is Gen. Mgr.

BRISTOL, TENN.—The Bristol Belt Line Railway Co. has applied for a franchise to build a line in Bristol, Va. Joseph L. Kelly is attorney for the company.

CHARLOTTE, N. C.—It is reported that survey has begun by the Charlotte Consolidated Construction Co. for the proposed electric railway from Mount Holly to Gastonia, 60 miles, via McOdenville and Lowell. W. L. Law is Ch. Engr.

GREENVILLE, S. C.—It is announced that stock subscription books for the proposed Greenville Interurban Railway Co. will be opened on June 9. The incorporators are H. H. Prince, S. A. Anderson, A. A. Gates, W. F. Neil and O. K. Mauldin.

WAYCROSS, GA.—The City Council has granted a franchise for a street railway to Burdette Loomis, of Hartford, Conn.; George W. Deen, of Waycross, Ga., and F. H. Elmore, of Jacksonville, Fla.

TOLEDO, OHIO.—C. D. Whitney, Pres., has announced that actual construction of the Toledo, Wabash & St. Louis Electric Railway will be in not later than July 1, and that the first 13 miles will be in operation this year. Noted fully on April 4.

CLEVELAND, OHIO.—The Cleveland, Ashland & Mansfield R. R. Co. has awarded contract to WILLIAM E. BURKE & SON, South Akron, Ohio, for grading road between West Salem and Seville, Ohio, four miles in length, and for grading 80,000 cu. yds. near Mansfield, Ohio. The latter work will be started first.

NEGAUNEE, MICH.—We are officially advised that the Lake Superior Construction Co., which has secured right-of-way for line from Negaunee to Marquette, a distance of 14 miles, will not let construction contracts until next fall. J. W. Barber is Secy., Schofield Bldg., Cleveland, Ohio. Surveys are under way. Company may build the railway with its own forces. W. H. Wagner, care of Sigler Bros., Cleveland, is Pres.; T. F. Laist is Ch. Engr., Lennox Bldg., Cleveland.

PAW PAW, MICH.—We are officially advised that the Kalamazoo, Lake Shore & Chicago Traction Co. will build a branch line from Toquin to Paw Paw Lake, Mich. New depot and terminal yards will be built at Kalamazoo and South Haven. James Trant is Gen. Mgr., Kalamazoo, Mich.

NAUVOO, ILL.—We are officially advised that the Mississippi Valley Electric Railway Co. will let contracts between June 1st and June 15th for 45 miles of grading, approximately 300,000 cu. yds. Company is also in the market for ties, poles and general railway equipment. Field office, Nauvoo, Ill. Address communications to T. R. Smith, Prin. Asst. Engr., 1034 Rookery Bldg., Chicago.

DUBUQUE, IOWA.—The Eastern Iowa Traction Co., by the trustees, A. Hurst, O. McCaffery and H. M. Tracy, has filed with the city recorder a draft of an ordinance which it desires to have the City Council adopt, giving the company a right to use the streets of the city for street railway purposes.

MANKATO, MINN.—W. L. Hixon and H. E. Hance have accepted of the street railway franchise recently granted to them by the City Council, and they state that the building of the line is assured as soon as the balance of $15,000 of the $50,000 of preferred stock that has to be placed in Mankato is taken. The articles of incorporation are being prepared, but it has not been decided whether to incorporate under the laws of Minnesota or of New Jersey. Noted on March 28.

QUITMAN, ARK.—R. L. Kane is Pres., and W. T. Hammock is Secy. of a committee that has been appointed to consider plans for building an electric railway between Quitman and Conway.

GALLATIN, MO.—C. W. M. Love, S. C. Rogers and Quinby Jones, of Kingston; Frank Clark, A. J. Ogden, J. W. McLean and J. B. Giddings, of Hamilton, with W. B. Rollins, civil engineer, of Kansas City, recently appeared before the [illegible] tive committee of the Commercial [illegible] in the interest of the proposed railw[illegible] Gallatin to Excelsior Springs. On [illegible] of R. J. Britton, the chairman was d[illegible] to appoint a committee to confer with [illegible] tions from other towns along the line [illegible] contemplated road. Noted on April [illegible]

CLEBURNE, TEX.—W. [illegible] ier of the Marshall National [illegible], Cashplied through W. H. Bled[illegible], has applied [illegible] a street railway franchise in Clebur[ne].

OAKLAND, CAL.—The O[illegible] Traction Co. has filed an application [illegible] street railroad franchise extending fro[m illegible] St. and Pleasant Valley Ave., over L[illegible] Shore Ave., Lake Park Ave., Lake Ave. [illegible] a private right-of-way to Grand Ave., [illegible] it will connect with the present Gr[illegible] Ave. line. The purpose of the proposed [illegible] to open a new section of Piedmont to [illegible] railway traffic. The ordinance is in t[illegible] hands of the street railroad committee. W[illegible] Kelly is Gen. Mgr.

PORTLAND, ORE.—J. A. [illegible] G. A. Hoffman and D. A. Spanton h[ave] filed articles of incorporation organiz[ing] the Municipal Railway & Improvement [illegible] It is capitalized at $60,000 and will est[ablish] the main office in Portland. Under th[e] charter the incorporators are permitted to [illegible] tain electric railways, engage in real e[state] business and develop water power.

RIVERSIDE, CAL.—Applicati[on] has been made here by the Crescent City [Ra]ilway Co. for a franchise to construct a[nd] operate a street railroad upon certain str[eets] in Riverside, beginning on North Mark[et St.] Sealed bids will be received until 9 a. [m.], May 24. C. R. Stibbens is City Clerk.

ALHAMBRA, CAL.—G. Bord[illegible] Pres. of the Board of Trade of Alhambra, has issued a statement that a cash bonus of [illegible],000 has been raised to secure the exte[nsion] of the San Gabriel line of the Pacific Electric Ry. Co., due east to Baldwin's ranch. It is the intention to have this completed within nine months. Geo. E. Pillsbury is Ch. Engr., Los Angeles, Cal.

EDMONTON, ALTA.—We are officially advised that contracts for the Edmonton Elec. Ry. (municipal) have been let as follows: For gas engines, ALLIS-CHALMERS CO., Milwaukee; producers, POWER & MINING CO., Milwaukee. Contracts for overhead work and rolling stock will not be let until later in the season. Track and power house will be built by the city. The line will run on Jasper Ave., First and Strathcona Sts., seven miles. Surveys are made and right-of-way is ready. R. R. Keely, City Engr., is Ch. Engr. Noted on May 9.

TORONTO, ONT.—T. H. Kilgore, Secy., Huron & Ontario Ry., Confederation Life Bldg., Toronto, Ont., advises us that he wishes to communicate with engineers, contractors or other interested parties possessing financial qualification of $200,000, with a view to securing an associate in the construction of between 800 and 900 miles of electric railway throughout the Province of Ontario, for which he holds a federal charter.

LIGHT AND POWER PLANTS.

BROOKLINE, MASS.—A committee of five has been appointed by the Brookline Board of Selectmen to consider the advisability of establishing a municipal light plant. Henry Howard, Philip S. Parker, 84 State St., Boston, John A. Conat and others are on committee.

PLEASANT VALLEY, N. Y.—The Whitesboro Town Board has granted a franchise to Oriskany Hydro-Electric Co. to generate electricity on the Oriskany Creek, at Pleasant Valley, near Summit Park. The company contemplates the erection of a power plant that will involve an expenditure estimated at $300,000. The plant will be located at the site formerly occupied by the Oriskany Woolen Mfg. Co., an option on which property has been secured, together with hundreds of acres of land in the vicinity. The old dam will be rebuilt and it is expected that work on the power station will be commenced next fall. The company proposes to sell electricity for power and illuminating purposes to the villages along the valley from here to Norwich, and it will also furnish the motive power for the proposed southern trolley road.

NEW YORK, N. Y.—The bids received May 16, by James W. Stevenson, Comr. of Bridges, for installing ventilating system and electrical equipment for the Manhattan subway station of the Williamsburg (new East River) Bridge, over the East River, between the Boroughs of Manhattan and Brooklyn, were Snare & Triest, 143 Liberty St., $52,270, and Watson Flagg Engineering Co., 27 Thames St., $56,800.

NEW YORK, N. Y.—Bids are asked until 11 a. m., June 3, by C. B. J. Snyder, Supt. School Bldgs., for installing electric equipment in new Public School No. 152, on south side of Ave. G, between East 23d and East 24th Sts., Boro. of Brooklyn; for installing electric equipment in new Public School No. 12, on corner of Madison and Jackson Sts., Boro. of Manhattan; for additions to and alterations in the electric bell system in Public School No. 43, on 129th St. and Amsterdam Ave., Boro. of Manhattan; for additions to and alterations in electric equipment in Public Schools No. 20, 23 and 47, Boro. of Queens; for installing electric equipment in addition to and alterations in Public School No. 39, on corner of State St. and Roanoke Ave., Far Rockaway, Boro. of Queens.

The following bids were received on May 20 by C. B. J. Snyder, Supt. of School Bldgs., for installing electric equipment in new Public School No. 94, on westerly side of Sixth Ave., between 50th and 51st Sts., Boro. of Brooklyn: B. B. Johnson, Brooklyn, $13,721; Peet & Powers, 225 Fourth Ave., $13,656; Gore, Duggan Electrical Co., 280 Broadway, $13,945; Griffin & Co., 150 Nassau St.,

$13,697; T. Frederick Jackson, 592 Columbus Ave., $13,0?? L. F. Benn, 208 Broadway, $13,750.

MADISON BARRACKS (Sacket Harbor post-office), N. Y.—Bids are asked until 11 a. m., June 1, by the Constructing Quartermaster, for constructing an electric light system of about 2,000 lights at this post. (Advertised, Engineering News.)

PHILADELPHIA, PA.—The SMITH, HARDICAN CO., Perry Bldg., Philadelphia, has the contract to erect a plant at 31st and Dauphin Sts., for the Auto Transit Co., of Philadelphia, which will operate electric passenger omnibuses on Broad and Diamond Sts. The plant will consist of a storage house and a power plant, fronting on 31st St. and extending from Dauphin St. to Fletcher St. They will be separated by Nevada St. Each building will be of brick, two stories high in front and one in the rear. The storage building will measure 128 x 168.8 ft., and will accommodate 50 omnibuses. The dimensions of the power house will be 82 x 168.8 ft. Plans for equipping this building were prepared by Dravo, Doyle & Co., Engrs., Lewis Block, Pittsburg. The total cost will be $100,000.

SCRANTON, PA.—The plans for the new boiler plant of the Scranton Electric Light & Heating Co. have been received. Work on the new building will begin in a short time. The new structure, when finished, will double the capacity of the Suburban plant on Washington Ave. A. J. Duffy, Scranton, is Ch. Electrician.

ROANOKE, VA.—H. G. and L. G. DILL, 1410 G St., N. W., Washington, D. C., have secured the contract for erecting new power house for Roanoke Heat, Light & Power Co. The specifications call for a steel frame and reinforced concrete floor. Cost of building will be about $25,000.

TRYON, N. C.—We have been officially informed that preliminary surveys have been made and plans are being prepared for the plant of the Tryon Electric Light, Water & Power Co., which will be situated on the Pacolet River. Power will be used for manufacturing and lighting. Two Peton wheels will be used. Bids will be asked for the work in July. Work will be taken up as soon as the water system now under construction is completed. Estimated cost, $65,000. G. H. Holmes, Tryon, is Engr.

BRUNSWICK, GA.—The Atlanta, Birmingham & Atlantic R. R. Co. has let contract for constructing an electric light plant to the FORE RIVER SHIPBUILDING CO., of Quincy, Mass. It will be a 150-KW. generating plant and will cost $25,000, with specifications for 177 arc lights and 1,000 incandescent lights. The lights are to be used on the site of the terminals, in the warehouses, on the piers and in the different plants. C. B. Wilburn, Brunswick, is Gen. Supt.

MACON, GA.—Bids are asked by the City Council until June 11 for furnishing light and water. In the meantime city electrician will estimate approximate costs of erecting and maintaining the electric-light plant. J. W. Wilcox is City Engr.

NASHVILLE, GA.—The city will build water-works and electric-light plant, it is reported, the buildings and equipment to cost $30,000. J. B. McCrary, Empire Bldg., Atlanta, Ga., is Engr.-in-Charge, and A. C. Sweat, Chn. Water and Light Com.

GREEN COVE SPRINGS, FLA.—A. A. KIND, 9 East Church St., Jacksonville, has secured the contract for constructing water works and an electric-light plant at Green Cove Springs.

ATTALLA, ALA.—The Etowah Light & Power Co. will install additional machinery. The present capacity of plant is 250 HP., and by installing new equipment and raising the dam 500 HP. will be obtained, giving the company a surplus over present demand and contracts of between 300 and 400 HP., which will be sold to manufacturing plants. It is proposed to petition authorities of Gadsden, Ala., for franchise to furnish the city with power. E. Wilson, Attalla, is Secy. & Mgr.

DORA, ALA.—Plans, specifications and bidding sheet for constructing an electric light plant at Dora, as advertised, are on file at the office of Engineering News, New York. Bids are asked until June 6. Thornton Co., Chalifoux Bldg., Birmingham, Ala., is Engr.

FRANKLIN, LA.—The City Council is reported to have adopted plans and specifications for a new municipal electric light plant, to double the capacity of the present plant. Cost, about $30,000. C. Lauve is Supt., Franklin.

MEMPHIS, TENN.—A hydro-electric development on White River, in Arkansas, 120 miles from Memphis, probably will be undertaken during the summer by capitalists in this city. The development will include construction of a reinforced concrete dam, a power house having a capacity of 15,000 KW. and the construction of a transmission line about 125 miles long from the power house in Memphis. J. H. Watkins, Vice-Pres., Bank of Commerce & Trust Co. of Memphis, is interested in the project, and J. A. Omberg, Jr., of Memphis, has supervision of the construction work.

CINCINNATI, OHIO.—A contract has been awarded by the Cincinnati Gas & Electric Co., of Cincinnati, to the OHIO FUEL SUPPLY CO., of Pittsburg, to supply natural gas for the city of Cincinnati at 20 cts. per 1,000 cu. ft. It is expected that the gas will be in use in Cincinnati in 30 days. Norman G. Kenan, Cincinnati, is Pres.

ASHLAND, OHIO.—Plans are being prepared by the Cleveland, Ashland & Mansfield Traction Co. for a power house to be erected here.

ASHTABULA, OHIO.—The City Council is contemplating an expenditure of from $50,000 to $100,000 for improvements to the municipal electric lighting plant. Lewis A. Amsden is City Engr.

COLUMBUS, OHIO.—We are officially advised that contract has not been let for constructing a power house for the Ohio State Sanitorium, bids for which were received May 14. C. O. Probst, M. D., is Secy.

NEGAUNEE, MICH.—The Marquette County Gas, Light & Traction Co. is contemplating extensive improvements and additions to its plant. A boiler house is to be built in which four automatic feed boilers will be installed. Coal conveyors will be installed and operated by the endless chain system. Orders will be placed for two new generators soon. G. A. Rockwell is Gen. Mgr., Oshkosh, Wis.

PAW PAW, MICH.—We are officially advised that the village of Paw Paw will erect a hydro-electric power house this season. William C. Mason is Clerk.

SHEFFIELD, ILL.—The Sheffield Electric Light Co., Sheffield, Ill., which recently secured a 20-yr. extension of its franchise, with a 10-yr. pumping and lighting contract from the city, contemplates reorganization and enlargement of its plant. H. W. Booth is Secy.

DANVILLE, ILL.—We are officially informed that a franchise has been granted Charles R. Lane, of Fort Wayne, for artificial gas rights. Mr. Lane has been granted an artificial gas franchise in Plainfield, Ind., also.

APPLETON, WIS.—The Green Bay & Mississippi Canal Co., of this city, has awarded the contract for constructing a $75,000 electric power-house to O'KEEFE & ORBISON. It is the intention of the canal company to furnish electrical power for manufacturing industries in practically every city of the Fox River Valley and ultimately to extend its service to Milwaukee.

DES MOINES, IA.—The State Board of Control on May 8 awarded to the MURRAY IRON WORKS, of Burlington, and the WESTINGHOUSE ELECTRIC & MFG. CO. Westinghouse Bldg., Pittsburg, contracts for engines and generators at the State institutions at Clarinda, Glenwood, Independence and Marshalltown. The total cost is $30,000.

ST. PAUL, MINN.—The Water Board has awarded contract for 7,000 ft. of concrete conduit, to extend from the present Centerville conduit to Deep Lake, to C. SCHREITER & CO., for $33,234.

WICHITA, KAN.—Preparations are being made for the reconstruction of the plant of the Wichita Gas, Electric Light & Power Co. now owned and controlled by J. O. Davidson and associates. The engine and boiler house will be rebuilt. A new boiler and a new 400-KW. generator will be installed. The machinery for the plant will cost about $100,000. W. R. Morrison, Wichita, is Supt.

GEDDES, S. DAK.—The citizens have voted to grant E. A. Boyd a franchise for a gas, electric light and heating plant. T. C. Pier is City Audr.

JACKSONVILLE, MO.—Plans for combined electric lighting and pumping station to be built here are being prepared by Hiram Phillips, Frisco Bldg., St. Louis. A system of water distribution mains will be laid, the entire project to cost about $35,000.

HOUSTON HEIGHTS, TEX.—The Houston Heights Water & Light Co. has decided to make improvements to its plant and purchase new machinery, which will cost about $35,000.

HOUSTON, TEX.—The Houston Lighting & Power Co. is contemplating making improvements to its plant. Cost, about $500,000. W. W. Reed is Supt., Houston.

GOLDTHWAITE, TEX.—The Town Council has granted Geeslin & Co. an electric light and power franchise, and they will at once install a plant, and conduct an ice plant in connection.

SEATTLE, WASH.—The following bids were received at the office of the Supervising Architect, Washington, D. C., for installation of a conduit and wiring system for the U. S. post-office at Seattle: Northwestern Electrical Equipment Co., 135 East Fifth St., St. Paul, Minn., $13,480; McBride Electrical Co., 346 Minnesota St., St. Paul, Minn., $12,690; W. E. Chase Engineering Co., Spokane, $10,601; Meachan & Babcock, Seattle, $10,868; Aguilter-Criswold Co., Seattle, $10,926; Seattle Electric Co., $24,000; R. F. Fletcher Co., Columbus, O.; $11,800, and F. E. Newbery & Co., Century Bldg., St. Louis, Mo., $10,947.

PORTLAND, ORE.—Bids will be received at once by the officials of the Mount Hood Railway & Power Company for equipping the large power house that is to be built at Bull Run. The initial installation will be 15,000 HP., and it is expected to have the plant in operation by next winter.

WINNIPEG, MAN.—Bids are asked for construction of a power house to be built by the city at Lac du Bonnet. Estimated cost, $3,000,000. H. N. Ruttan is City Engr.; Cecil B. Smith is Engr.

BRANDON, MAN.—The Brandon Electric Light Co. has voted $21,000 to be spent on extensions to its plant. G. A. Paterson, Brandon, is Mgr.

MINNEDOSA, MAN.—An electric engineer has been engaged to prepare plans for the development of water power on the Little Saskatchewan River here. E. B. Fisher is interested.

BRIDGES.

NEW HAVEN, CONN.—Specifications and bidding sheet for constructing reinforced concrete girder bridge at Humphrey St., over Mill River, are on file at the office of Engineering News, New York. Bids are asked until May 27, as advertised in Engineering News, May 16.

PROVIDENCE, R. I.—The War Department at Washington, D. C., has been notified by the New York, New Haven & Hartford R. R. Co. that this corporation intends to build a bridge across Taunton River at the present site of Slade's Ferry Bridge. The plans will be forwarded to the War Department and contracts will be awarded as soon as the plans are approved. The bridge will be wide enough for a double track, the intention being to continue the double rail through to Warren. E. P. Dawley, at New Haven, Conn., is Engr. Const., Bridge & Roadway.

NEW YORK, N. Y.—Bids are asked by J. W. Stevenson, Comr. of Bridges, until 2 p. m., May 31, for furnishing and delivering steel shapes, plates, clips, bolts, rivets and washers for Brooklyn Bridge.

TOMS RIVER, N. J.—Bids are asked by the Board of Chosen Freeholders, Jas. E. Otis, Dir., until June 4 for building highway bridge over north branch of Toms River in Manchester Township. Chas. L. Rogers is Chn. Bridge Com., Lakehurst, N. J.

CLARION, PA.—Fred V. Brown, C. E., Clarion, has been employed by the Clarion County Commissioners to prepare plans and specifications for constructing bridge across Clarion River, consisting of two spans, each 178 ft. long, with 14-ft. roadway; also for repairing stone abutments and piers.

HARMARVILLE, PA.—Plans are being prepared by the Pennsylvania R. R. Co., Alex. C. Shand, Ch. Engr., Philadelphia, for construction of bridge replacing structure recently destroyed at Harmarville. Estimated cost, $50,000. Alex. C. Shand, at Philadelphia, is Ch. Engr.

TURTLE CREEK, PA.—The Council has decided to build concrete bridge across Monroeville Ave. Cost, $3,000.

EBENSBURG, PA.—Bids are asked by the County Commissioners, J. B. Lehman, Clk., until 2 p. m., June 6, for erection of concrete reinforced bridges across South Fork Creek at Lovett and across Susquehanna River on road between Spangler and Nicktown.

GREEN LANE, PA.—John Hancock, 118 North Twelfth St., Philadelphia, has decided to construct bridge across Perkiomen River. Cost, $10,000.

SALISBURY, MD.—The County Commissioners have decided to erect bridge at foot of Main St.

WASHINGTON, D. C.—Bids are asked by the District Commissioners until noon, June 1, for purchase and removal of highway steel, pin-connected, Pratt deck bridge, consisting of two 113-ft. spans, two 114-ft. spans, one 24-ft. roadway, two 4-ft. sidewalks and three 20-ft. steel towers. (Advertised, Engineering News.)

BLUEFIELD, W. VA.—The AMERICAN BRIDGE CO., Frick Bldg., Pittsburg, Pa., has secured contract for constructing bridge connecting Bluefield with Julius, Ky. The structure will have a channel span of 225 ft. and be supported by two piers and two abutments. Estimated cost, $30,000.

PARKERSBURG, W. VA.—Bids are asked by C. H. Shattuck, Pres. Parkersburg & South Side Bridge Co., until noon, June 10, for constructing superstructure of steel highway bridge across Little Kanawha River. The total length of bridge is 808 ft., consisting of one 300-ft. span, two 120-ft. spans and five girder spans, approximately 53 ft. in length. (Advertised, Engineering News.)

WILLIAMSPORT, W. VA.—A company is being formed in Martinsburg, Williamsport and Hagerstown for the purpose of erecting steel bridge over Potomac River at Williamsport, and enough money has been subscribed to assure the success of the project. The bridge will be of steel, 1,400 ft. in length, with roadway for wagons and another for trolley cars and passageway for pedestrians on the side.

MILLERS FERRY, ALA.—J. H. & W. L. WYNN have secured contract at $14,000 to erect lattice bridge across Tallapoosa River.

ANNISTON, ALA.—Bids are asked by the Commissioner's Court until June 2 for constructing bridge across Ohatchie River, to be a duplicate of the present bridge. Bids will also be received for constructing covered bridge at same place. M. N. Coker is Comr.

SHREVEPORT, LA.—At a recent meeting of the Board of Aldermen of this city an agreement between the city and Parish of Bossier was entered into to construct bridge across Red River at this point to cost not less than $200,000. The bridge will have to be a draw bridge and the total distance from bank to bank is about 1,000 ft. Nat. F. Dortch is City Engr.

ALEXANDRIA, LA.—Bids are asked by A. J. Muller, Chn. Bridge Com., at Opelousas, La., until noon, June 3, for constructing highway draw-bridge over Bayou Courtableau, at Port Barre. Ira W. Sylvester, at Alexandria, is Consult. Engr. (Advertised, Engineering News.)

NEW ORLEANS, LA.—The contract for constructing viaduct over the tracks of the Southern Pacific R. R. Co., on the line of Newton St., in Algiers, has been awarded to the OTTUMWA BRIDGE CO., Ottumwa, Iowa, at $99,000. Bids were also submitted by the Penn Bridge Co., Beaver Falls, Pa., $112,000, and the Baltimore Bridge Co., Bush St. and B. & O. R. R., Baltimore, Md., $117,777. W. J. Hardee is City Engr.

NATIONAL SOLDIERS' HOME, TENN.—Bids are asked by Paul E. Divine, Treas. Mountain Branch, H. D. V. S., National Soldiers' Home, until noon, June 25, for constructing concrete bridge over Brush Creek.

KNOXVILLE, TENN.—Bids are asked by A. D. Collier, County Judge, until June 14, for (1) removing the present floor of the county bridge across Tennessee River at the end of Gay St. (2) putting in steel plate floor; (3) paving roadway of bridge with asphalt, bitulithic, wood block or brick; (4) paving the abutments. There will be required about 250 tons of steel and two lots of paving, 2,500 sq. yds. in each lot. Separate bids will be asked for items (1) and (2) for (3) and (4). L. C. Carter care Carolina Engineering Co., Burlington, N. C., is Engr. (Advertised, Engineering News.)

PAULDING, OHIO.—Bids are asked until May 28 for constructing steel bridges, concrete abutments and culverts. Estimated cost, $14,000. C. L. Straw is County Surv.

COSHOCTON, OHIO.—The CENTRAL CONCRETE & CONSTRUCTION CO., of Coshocton, has secured contract for constructing 165-ft. span over Wills Creek for $4,680. LEONARD PROBST has contract for constructing substructure of same bridge for $3,000. Geo. J. Bock, Jr., is County Surv.

ENTERPRISE, OHIO.—Bids are asked until May 25 for constructing 2-span bridge across Hocking River at this city, and for 2-arch reinforced concrete structure. James L. Martin is Clk. of the Bd.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service, M. J. Keefe, Clk., until noon, June 4, for furnishing material and constructing superstructure of Eighth-St. bridge over the Cincinnati, Hamilton & Dayton Ry. Charles N. Danenhower is Ch. Engr. Bd. Public Service. (Advertised, Engineering News.)

HARLAN, IND.—The Board of Commissioners are reported to have awarded contract for constructing bridge to the Greenfield Bridge & Sewer Co., for $27,000.

ELWOOD, IND.—The City Council has petitioned the County Commissioners to build bridges at South B and 19th Sts.

PORTLAND, MICH.—The TOLEDO-MASSILLON BRIDGE CO., Toledo, Ohio, has been awarded the contract for building single span steel bridge, 250 ft. long, across Grand River, on town line between Portland and Danby Townships, in Ionia County, for $9,400.

ST. CHARLES, ILL.—A new viaduct may be built at East Fifth St. to replace one recently burned. The viaduct was used by the Aurora, Elgin & Chicago Electric Road.

LA CROSSE, WIS.—Bids are asked by the Board of Public Works until 2 p. m., May 31, for constructing reinforced concrete bridge over Lagoon in Island Park. W. S. Woods is City Engr.

MILWAUKEE, WIS.—The Board of Public Works May 10 let contract to F. W. MOORE, of Milwaukee, for constructing bascule bridge across South Menomonee Canal, at Sixth St., for $126,500. The Strobel Steel Construction Co., Monadnock Bldg., Chicago, Ill., bid $129,000. The bid of Scherzer Rolling Lift Bridge Co., Monadnock Bldg., Chicago, $115,000, was rejected because it did not comply with the plans and specifications of the bridge as advertised by the Board of Public Works. Charles G. Poetsch is City Engr.

LANSING, IOWA.—Preliminary plans are under way for construction of iron wagon bridge across Mississippi River at Lansing.

OSKALOOSA, IOWA.—The Board of County Supervisors May 6 let contract for constructing steel span bridge across South Skunk River to the J. K. BARKCROFT CO., of Des Moines, Iowa, successors to the George E. King Bridge Co., for $3,125.

COFFEYVILLE, KAN.—Bids are asked by the Board of County Commissioners until May 28 for constructing steel bridge, 155-ft. span with approach of 87 ft. at each end of 16-ft. roadway, over Verdigris River. E. H. Stewart is County Clk.

EMPORIA, KAN.—Bids are asked by the County Commissioners, G. F. Arnold, Clk., until noon, May 29, for painting two bridges.

ST. LOUIS, MO.—The St. Louis & San Francisco Ry. Co. will erect 300-ft. span highway bridge with 24-ft. roadway and two 6-ft. sidewalks over its tracks at Fyler St. J. F. Hinckley is Ch. Engr., at St. Louis.

PARKDALE, ARK.—The citizens of Parkdale have organized the Parkdale Bridge Co. for the purpose of building steel bridge across Bayou Bartholomew and will soon let the contract. Estimated cost, $5,000.

LAREDO, TEX.—The National of Mexico, according to reports, has plans made for constructing second railroad bridge, to be built over Rio Grande at this place, to cost about $500,000. The proposed joint bridge to be built by the National and the St. Louis, Brownsville & Mexico, for which plans were made some time ago and approved by the Mexican Government, is still under consideration.

TRINIDAD, COLO.—The Commissioners of Las Animas County have let contract for construction of steel bridge across Las Animas River to ED. BULLEN, of Pueblo.

EUGENE, ORE.—The County Commissioners have awarded contract to W. W. INMAN, at $9,850, for constructing bridge across McKenzie River at Hendricks Ferry.

NEEDLES, CAL.—The Atchison, Topeka & Santa Fe Ry. Co., it is said, will build bridge over Colorado River at this place. A. F. Robinson, at Chicago, Ill., is Bridge Engr.

OAKLAND, CAL.—Bids are asked by the Board of County Supervisors, John P. Cook, Clk., until 10 a. m., May 27, for constructing concrete bridge across Los Pesitas Creek on the Dublin & Livermore Road.

SAN JOSE, CAL.—Bids are asked until June 4 for construction of concrete bridge with 54-ft. span at Hamilton Ave., over Los Gatos Creek. Estimated cost, $5,000. J. G. McMillan is County Surv.

FREDERICTON, N. B.—Bids are asked by C. H. L. Labillois, Chief Commissioner of Provincial Works Dept., until July 8, for constructing two metal superstructure spans of 252 ft. 8 ins. each, over St. John River.

OTTAWA, ONT.—The Department of Public Works has awarded the following contracts for constructing bridges over the Cull River at Minden: JENKS & DRESSER, Sarnia, Ont.; at Housey's Rapids, Muskoka District, R. M. ROY, Hamilton, Ont.; at Gooderham, East Victoria, to DICKSON BROS., Campbellford; two bridges, one at Thessalon and one at Larchwood in Algoma District to ONTARIO BRIDGE CO., Toronto.

BUILDINGS.

SPRINGFIELD, MASS.—The plans of Edward L. Tilton, Arch., 32 Broadway, New York, have been accepted for constructing a public library in Springfield. The structure will be built of stone, and will cost, complete, about $360,000. Nathan D. Bill is Pres. City Library Association.

ALBANY, N. Y.—The Board of Award of the Trustees of Public Buildings have accepted the plans of Palmer & Hornbostel, Archs., 63 William St., New York, for the new Educational Building to be erected at Albany. The plans provide for a building 585 ft. long, with four stories and basement, constructed of granite, marble or limestone. It will be of classic design, with a Corinthian colonnade facing Washington Ave. When completed the building will contain the State Library, State Museum and other departments. It is estimated that the building will cost $3,000,000. George L. Heins, State Arch., and Andrew S. Draper, Comr. of Education, will confer with the architects regarding the final draft of the plans. M. F. DOLLARD, Albany, has contract to clear the site for the new building.

BUFFALO, N. Y.—MOSIER & SUMMERS, 1266 Seneca St., Buffalo, have been awarded the contract for building a 4-story brick and terra cotta fireproof addition, 175 × 50 ft., to the "Providence Retreat" at Main St. and Humboldt Parkway, for the Sisters of Charity of the Roman Catholic Church. The cost will be $155,000. Esenwein & Johnson, 777 Ellicott Sq., Buffalo, are Archs.

BINGHAMTON, N. Y.—Bids are asked by the State Commission in Lunacy, the Capitol, Albany, N. Y., until 3 p. m., June 5, for constructing dining-room and kitchen addition to Chronic Building, including heating, plumbing, electric lighting, etc., at the Binghamton State Hospital, Binghamton. G. L. Heins, the Capitol, Albany, is State Arch.; T. E. McGarr is Secy. State Comn. in Lunacy. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked until 11 a. m., May 29, by Theodore A. Bingham, Police Comr., for furnishing all the labor and furnishing and erecting all the materials necessary to build and complete the alterations to the interior arrangement (excepting as to heating and ventilating system, boilers and steam piping) of the new building on the block bounded by Grand, Centre and Broome Sts. and Centre Market Pl., Boro. of Manhattan, for headquarters for the Police Department of the City of New York.

Bids are asked until 3 p. m., May 29, by John F. Ahearn for the excavation, mason, carpenter, structural steel, ornamental iron, painting, hardware and other work for a public bath building to be erected on the corner of Cherry and Oliver Sts.; and for the plumbing and water supply, electric pumps and hot water heaters, etc., for the public bath building to be erected on the corner of Oliver and Cherry Sts., Boro. of Manhattan.

Plans have been filed with the Buildings Superintendent for an 11-story loft building, with ground floor stores, to be built for the Six and Eight West Twentieth Street Co., of which Edward Friedman is Pres., at 8 West 20th St. It will have 50 ft. front and 82 ft. depth, with a facade of brick, trimmed with terra cotta and limestone, and will cost $250,000. Schwartz & Gross, 35 West 21st St., are Archs.

NEW YORK, N. Y.—The following bids were received on May 15 by Bird S. Coler, Pres. Boro. of Brooklyn, for the erection and completion of a public bath building on Hamburg Ave., northwest of Willoughby Ave., Boro. of Brooklyn: George Driscoll, St. George, S. I., $180,000; James McArthur, 22 Ormonde Pl., Brooklyn, $171,000; F. T. Nesbit Construction Co., 116 Nassau St., $169,900; George Hilderbrand, 38 Park Row, $165,480.

The following bids were received May 15 by John F. Ahearn, Pres. Boro. of Manhattan, for erection and completion (excepting plumbing and gas fitting) of a public bath building at Nos. 342, 346 and 348 East 54th St., Boro. of Manhattan: F. T. Nesbit Construction Co., 116 Nassau St., (a) $212,500, (b) $3, (c) $4,850; Kelley & Kelly, 45 East 42d St., (a) $220,500, (b) $2, (c) $6,700; Patrick Gallagher, 1183 Broadway, (a) $209,900, (b) $2.50, (c) $6,300; Luke A. Burke Sons & Co., 25 West 42d St., (a) $210,000, (b) $2, (c) $4,900. The bids received for labor and material required for the plumbing and gas fitting to be installed in a public bath building to be erected at Nos. 342, 346 and 348 East 54th St., Boro. of Manhattan, were: Kenney Renner Co., 135 West 24th St., (a) $31,074, (b) $4; Christopher Nally, 2384 Broadway, (a) $30,883, (b) $1; Byrne & Murphy, 890 Park Ave., (a) $29,900, (b) $5; George E. Gibson, 511 Park Ave., (a) $30,647, (b) $3.25.

NEW YORK, N. Y.—The New York Central & Hudson River R. R. Co. has completed plans for a new passenger station in the Bronx at 149th St. and Park Ave. When it is completed the road will abandon its Mott Haven station, at Park Ave. and 138th St. The station will be an L structure, located on the south side of 149th St. and extending from Park Ave. to Spencer Pl., with the main facade and waiting room on the Spencer Pl. side. From the tracks underneath the station it is proposed to run extension platforms to the Mott Ave. subway station, a block and a half to the west. It will require 18 months to build the station.

NEW YORK, N. Y.—The bids received May 20, by C. B. J. Snyder, Supt. School Bldgs., for general construction, etc., of new Public School No. 159, on Pitkin Ave. between Crescent and Hemlock Sts., Boro. of Brooklyn were: John Kennedy, 1133 Broadway, $229,750; Arcl Construction Co., 99 Broadway, Brooklyn, $205,500; James McArthur, 22 Ormonde Pl., Brooklyn, $224,521; Richard E. Henningham, 1 Madison Ave., $208,305; George Hildebrand, 38 Park Row, $203,825; Peter Cleary, 235 Bainbridge St., Brooklyn, $203,000; G. F. Driscoll, St. George, S. I., $198,700.

The following bids were received at the same time for general construction, etc., of new Public School No. 114, on James, Oak and Oliver Sts., Boro. of Manhattan: George Hildebrand, 38 Park Row, $481,000; Patrick Gallagher, 1183 Broadway, $501,900; Richard E. Henningham, 1 Madison Ave., $514,980; Chas. H. Peckworth, 415 Hudson St., $505,367; P. J. Brennan & Son, Fuller Bldg., $499,787; Thos. Cockerill & Son, 147 Columbus Ave., $514,500; P. Sullivan, 230 Grand St., $497,000; Clark & Stowe, 221 Greenpoint Ave., Brooklyn, $526,000.

NEW YORK, N. Y.—Bids are asked until 11 a. m., June 3, by C. B. J. Snyder, Supt. School Bldgs., for alterations, repairs, etc., for Public Schools Nos. 19, 19 Annex, 26, 31, 33, 35, 37, 51, 55, 59, 71, 73, 87, 106, 113, 116, 126, 137, Boro. of Brooklyn; for general construction, etc., of new Public School No. 156, on Sutter Ave., Grafton and Barrett Sts., Boro. of Brooklyn; for general construction, etc., of an additional story to Public School No. 29, on west side of Washington St., between Albany and Carlisle Sts., Boro. of Manhattan; for alterations, repairs, etc., to Public School No. 86, at Lexington Ave. and 96th St., Boro. of Manhattan; for construction of temporary school buildings at Public Schools Nos. 51, 52, 53, 54, 57 and 67, Boro. of Queens.

MONTCLAIR, N. J.—The Board of School Estimates recently adopted a motion recommending the appropriation of $175,000 for building a central grammar school. Plans for this building were prepared, but exceeded this amount. New plans will have to be prepared so as to bring the cost within the amount appropriated.

NEWARK, N. J.—The bids received for erecting an annex to the City Hall were as follows: J. PELLETIER, of Newark, $80,742 (awarded contract); E. M. Waldron & Co., Frelinghuysen Ave., $98,139; Fissell & Wagner, $103,500; E. B. Vliet, $109,400; David Henry Building Co., $110,674.

PHILADELPHIA, PA.—Stearns & Castor, Stephen Girard Bldg., have awarded to the REINFORCED CEMENT CONCRETE CO. the contract for the erection of the Wolf Building, at the corner of 12th and Callowhill Sts. The building will measure 100 × 130 ft., and will be of reinforced concrete and brick construction. The cost will be about $150,000.

PITTSBURG, PA.—J. Maurice Trimble, Ferguson Block, Pittsburg, is preparing plans for an addition to the Allegheny County court-house. This addition will be a tower of about 45 stories, 90 × 90 ft., of steel and granite construction.

BALTIMORE, MD.—The Baltimore & Ohio R. R. Co. will erect a freight depot and terminal buildings on the property bounded by Conway, Sharp, Howard and West Sts. Estimated cost, $1,000,000. D. D. Carothers, Baltimore, is Ch. Engr.

The contract to construct a Y. M. C. A. building at Franklin and Cathedral Sts. has been awarded to MORROW BROS., 212 Clay St., Baltimore, and work will be started immediately. The building is to be completed and ready for occupancy Aug. 1, 1908. The building will be seven stories high. The ground floor will contain four bowling alleys, 2,500 lockers, 2,000 for men and 500 for boys in a separate room; a swimming pool 25 × 74 ft., and baths for men and boys in separate sections. Francis A. White, 15 North St., is Pres.

NORFOLK, VA.—A 6-story brick structure to be used for stores and apartment suites is to be erected on the corner of Granby and Courtney Sts., the site being the vacant lot immediately adjacent to the Granby Theater, for the Real Estate Trust & Insurance Co., of Norfolk. Estimated cost, $150,000.

ATLANTA, GA.—R. H. Hunt, Arch., Eighth and Broad Sts., Chattanooga, Tenn., is preparing plans for the Broughton Institutional Church at Atlanta, Ga., to cost $300,000.

TUSCALOOSA, ALA.—Plans for new buildings to be erected on the campus of the University of Alabama are being considered by the Committee on Buildings and Grounds appointed by the Board of Trustees of the State University. Appropriation, $500,000. John W. Abercrombie is Pres.

NEW ORLEANS, LA.—We are officially advised that JAMES STEWART & CO., 135 Broadway, New York, N. Y., have secured contract to construct a union passenger station and train sheds at Canal and Basin Sts. for the joint use of the Rock Island, Frisco and Southern Railroad systems, and their interests. The station will be of steel superstructure, and will be built of granite, stone and brick. J. F. Hinckley, St. Louis, Ch. Engr., St. Louis & San Francisco R. R. Co., will be in charge.

TOLEDO, OHIO.—E. O. Fallis, Arch., The Nasby, is preparing plans for a bank building which is to be erected on Huron St. by the People's Savings Building & Loan Co., at a cost of $125,000.

TOLEDO, OHIO.—The COLUMBIA CONSTRUCTION CO., of Cleveland, has secured contract to erect an addition to the Scottwood apartment house on Monroe St., to cost about $125,000.

CLEVELAND, OHIO.—A permit has been issued by the Building Inspector to Eldridge & Higgins Co. to construct a brick and steel warehouse at Huron Road and Vinegar Hill, to cost $125,000.

The Williamson Building Co. intends to extend the Williamson Bldg. at a cost of $750,000. The addition will be erected east of the present structure on the 40-ft. Euclid Ave. frontage, now occupied by the 4-story Otis Building. The addition will be 16 stories high, and 180 ft. deep, as is the old part of the building, and will conform in every way with the original building. The extension to the east will place the Euclid Ave. entrance in the center of the completed building.

SOUTH BEND, IND.—The Studebaker Bros. Mfg. Co. has ordered plans for erection of a $250,000 office building and repository. The building will be of pressed brick, four stories high, 120 × 344 ft., of fireproof construction, oak finish, with maple floors. S. M. Beman, of Chicago, is Arch.

NORTH CHICAGO, ILL.—The contract for constructing the ten principal buildings of the Great Lakes Naval Training Station at North Chicago has been awarded to the NOEL CONSTRUCTION CO., German and Calvert Sts., Baltimore, Md., for $1,500,000. The appropriation for the entire 25 buildings was only $2,000,000, and the bids offered were all in excess of this sum.

CHICAGO, ILL.—L. G. Hallberg, Arch., 84 La Salle St., has prepared plans for a warehouse, to be built at 1332-34 Wabash Ave. for the Republic Metal Ware Co., 23 Randolph St., which is to be six stories high, 65 × 170 ft., brick and reinforced concrete construction, with galvanized iron skylights, plate glass, maple flooring, composition roofing, gas and electric fixtures, water closets, washstands and bath tubs. Cost, $125,000. Bids will be received by the architect.

Shepley, Rutan & Coolidge, Archs., 84 Van Buren St., have let general contract for a bank and office building, at La Salle and Adams St., for the Corn Exchange National Bank, John C. Neeley, Secy., 217 La Salle St., to C. EVERETT CLARK, 100 Washington St. It is to be 17 stories high, 75 × 188 ft., built of brick and stone, and will cost $1,500,000. Noted on May 2.

MILWAUKEE, WIS.—Van Ryn & De Gelleke, Archs., 211 Grand Ave., Milwaukee, have let the general contract for a store and office building, to be erected at Grand Ave. and West Water St., for Max Goldstein, to the STERLING ENGINEERING & CONSTRUCTION CO., Alhambra Bldg. The building will be six stories, 100 × 200 ft., built of reinforced concrete. Cost, $200,000.

MILWAUKEE, WIS.—"The Evening Wisconsin" states that the Grand Trunk Railway System has acquired 24½ acres of land in Milwaukee, between Lake Michigan and the Kinnickinnic River, on the south side of the city, which will be used as an extensive terminal. The company will construct a railway and car ferry terminal system. Charles M. Hays is Gen. Mgr., Montreal, Que.

MUSCATINE, IOWA.—At a recent election the residents of Muscatine County voted to expend $150,000 for a new court-house and jail.

FORT ROBINSON, NEB.—The following contracts have been let for construction of buildings at Fort Robinson, Neb.: GRAHAM CONSTRUCTION CO., Denver, Colo., constructing field officers' quarters, $15,000; two double captains' quarters, $51,170; one double lieutenants' quarters, $22,000; one 10-set bachelor officers' quarters, $3,930, and two double barracks, $114,000.

OMAHA, NEB.—Herman Cohn, Nebraska Clothing Co., has awarded general contract to F. P. GOULD & SON, Paxton Block, at $145,000, for a 4-story fireproof hotel and store building, at 16th St. and Capitol Ave. It is to be 240 ft. long, half with depth of 100 ft., and half with depth of 66 ft. John Latenser is Arch., Bee Bldg.

UNIVERSITY, N. DAK.—Bids are asked until 10 a. m., June 4, by the Board of Trustees of the State University of North Dakota and School of Mines of North Dakota, for constructing a library building, a gymnasium building, a school of mines building, and for repairs on the ladies' dormitory, known as "The Cottage." Patton & Miller, 140 Dearborn St., Chicago, and J. B. De Remer, Grand Forks, N. Dak., are Archs.

ST. LOUIS, MO.—A contract has been awarded by the La Salle Investment Co., to CALDWELL & DRAKE, of Cleveland, Ohio, for the erection of an 18-story building at the corner of Broadway and Olive St., now occupied by the Wells Building. The cost is to be about $400,000, and the work will begin at once. The plans for the building were prepared by H. F. Roach, Chemical Bldg., St. Louis.

LITTLE ROCK, ARK.—H. A. Bowman, of Little Rock, is having plans prepared for a 9-story modern office building to be erected at the corner of Fourth and Main Sts. The building will be constructed of steel and stone, 75 × 140 ft. Estimated cost, $125,000.

DALLAS, TEX.—The School Board has awarded contract for erection of Central High School building to CRISMAN & NESBIT, at $123,191; heating system to KINNISON BROS., 173 Elm St., at $14,710, and plumbing, etc., to P. I. SHEEHAN & CO., 499 Main St., at $6,834. Total cost of building, $144,765.

DENVER, COLO.—The contract for constructing an 8-story, fireproof office building on the corner of 17th and Champa Sts. has been let by F. G. Bonfils, Charles Boettcher and E. R. Cooper, officers of the Dome Investment Co., to A. R. WHITNEY, JR., & CO., 16th and Champa Sts., Denver. The building will cost $225,000, and will be of reinforced concrete with enameled white brick and enameled terra cotta facing. It will be laid in white cement, and will have a marble facade or entrance.

SEATTLE, WASH.—Plans for a 7-story concrete building to be erected by J. M. Buttbick on the east side of Railroad Ave., between Main and Washington Sts., are being prepared by Warren H. Gould, Arcade Bldg. The building will be 60 × 135 ft., constructed of concrete.

The contract for construction of the Merchants' Exchange Building, at the corner of Occidental Ave. and King St., has been let to the JAMES BLACK MASONRY & CONTRACTING CO. The contract price is approximately $125,000. The building is to be of mill construction, six stories in height, and covering a ground space 110 × 111 ft.

TACOMA, WASH.—Plans are being prepared for the depot to be constructed in Tacoma for the Northern Pacific Ry. Co. Estimated cost, $750,000. J. E. Campbell is Superv. Bridges and Bldgs., Tacoma.

REDWOOD CITY, CAL.—Bids will be received about July 1 for erecting a court-house, to cost $150,000. Joseph H. Nash is County Clerk; Glenn Allen, 330 Turk St., San Francisco, is Arch.

SAN FRANCISCO, CAL.—A [illegible]el is to be erected on the corner of P[illegible] and Bush Sts. by C. A. Meusdorfer, 22[illegible] [Cal]ifornia St., Arch. and owner. The lot m[illegible]s 112.6 ft. on Powell and 52.6 ft. on [illegible] St. The building will be six stories [illegible] eight, and contain 125 rooms, with 60 [illegible]. The new hotel will represent an inve[illegible] of $175,000. The exterior will be of [illegible]d brick.

SAN FRANCISCO, CAL.—T[illegible]bst Brewing Co. will build a 6-stor[illegible]tel at the corner of Ellis and Powell [illegible] to cost $200,000, and has applied to [illegible] Board of Works for a permit.

The Society of California [illegible]ers, 1822 O'Farrell St., plans to build a [illegible] 6-story brick hotel at the corner of [illegible]h St. and Pioneer Pl.

Thomas Magee & Sons, 5 M[illegible]mery St., have applied for a permit to [illegible] a 7-story office structure at the corner [illegible] Geary and Kearny Sts., which will cost $[illegible]000.

LOS ANGELES, CAL.—The [illegible]rectors of the Consolidated Realty Co., [illegible] W. Hillman Bldg., have recently [illegible]ted Harrison Albright, 1201 West [illegible] St., Los Angeles, as the architect [illegible] the reinforced concrete building to be erected at the corner of Sixth and Hill Sts. It will cost over $400,000 and will be built as soon as the details of construction can be arranged. The structure will be ten stories high above the basement, or 120 ft. high above the sidewalk, with a frontage on Hill St. of [illegible] ft. and on Sixth St. of 126 ft. The footings, columns, girders, beams, floors, roofs and stairs, exterior and interior walls will be constructed of reinforced concrete. The floors of the entrance lobby, corridors and toilet rooms will be mosaic tile. The floors of the offices will be of cement, with fastenings for rugs and carpets. The interior doors, trim, etc., will be mahogany finished birch. The walls and ceilings throughout the building will be decorated. There will be four high speed plunger passenger elevators which will give service from the basement to the tenth floor.

The Southern Pacific Co. is reported to be considering the question of erecting a $700,000 station in Los Angeles. It will be 700 ft. long. R. H. Ingram is Gen. Supt. Southern Dist.

MOSCOW, IDAHO.—Bids are asked until 2 p. m., June 11, at the University of Idaho, for constructing the superstructure of the administration building at the State University. The structure will be 90 × 274 ft., three stories high, of stone, brick and fireproof construction.

WINNIPEG, MAN.—Hooper & Walker, Provincial Archs., McIntyre Block, Winnipeg, are preparing plans for a 5-story, 140 × 8[illegible] ft. brick and stone addition to the Manitoba Agricultural College.

SASKATOON, SASK.—Bids are asked by Fred. Gelinas, Secy. of the Dept. of Public Works, Ottawa, Ont., until May 27, for erecting a post-office building here. J. Greenfield, Canada Life Block, Winnipeg, Man., is Arch.

MOOSEJAW, SASK.—Plans are being prepared in Montreal for hotel to be erected here for the Canadian Pacific Ry. Co. at a cost of $175,000. Hayter Reid is Supt. of Hotels, Montreal, Que.

WATER SUPPLY—IRRIGATION.

WALTHAM, MASS.—The PLATT IRON WORKS CO., 100 Broadway, New York, has been awarded contract at $22,450 for installing pumps at the new pumping plant, with capacity of 6,000,000 gallons per hour. Bertram Brewer is City Engr.

NEW LONDON, CONN.—The Board of Water and Sewer Commissioners has let contract for laying c.-i. water main from a point half way to Lake Konomoc into the city to L. A. TAYLOR, of Boston, Mass. George K. Crandall is City Surv.

WEST POINT, N. Y.—Bids are asked by the Quartermaster, U. S. Military Academy, until noon, June 10, for constructing two covered slow sand filters, each about one-eighth acre in extent. (Advertised, Engineering News.)

BREWSTER, N. Y.—Bids are asked by the Board of Village Trustees, Philip Diehl, Pres., until noon, June 1, for c.-i. pipe, gates, gates and hydrants. T. H. McKenzie is Engr. (Advertised, Engineering News.)

Bids are asked by the Board of Village Trustees, Philip Diehl, Pres., until noon, June 3, for constructing concrete reservoir, excavating wells and springs, and laying about 4½ miles 4, 6 and 8-in. c.-i. pipe for water supply. (Advertised, Engineering News.)

UTICA, N. Y.—EDWARD K. PATTEN, 135 John St., Utica, has secured contract for laying western section of 20-in. water main, which is to extend across the lower portion of the city. Paul Schultz is City Engr.

NYACK, N. Y.—Bids are asked by the Water Commissioners, James Kilby, Clk., until 3 p. m., May 29, for furnishing pipe and specials for water main to be constructed between Nyack and the water plant at West Nyack.

WATERVILLE, N. Y.—We are officially advised that the following bids were received May 13 by the Board of Water Commissioners, Earl Conger, Clk., for constructing 25,000,000-gal. reservoir and pipe line connecting it with present water system: Thomas E. Vermibye, White Plains, N. Y., $38,000; Field, Baker & Underhill, Philadelphia, Pa., $26,779; Ellery, Colby & Co., Owego, N. Y., $25,500; Frank Foote, Nunda, N. Y., $31,160; John Marsden, Utica, N. Y., $34,[illegible]00; Capital Construction Co., Sandy Hill, N. Y., $28,797; G. H. Eldridge, Ossining, N. Y., $30,200.

DOVER, N. J.—Bids are asked by the Board of Water Commissioners, John H. Martin, Clk., until 8 p. m., May 2[illegible], for digging trench and laying about 6[illegible] ft. 6-in. and 2,200 ft. 4-in. water main pipes, with all caulking, connections and laterals.

PHILADELPHIA, PA.—Plans, specifications and bidding sheet for laying steel or c-i. water pipe and all appurtenances for high pressure water service in Philadelphia (Specification No. 63), as advertised, are on file at the office of Engineering News, New York. Bids are asked until June 3.

WEST NEWTON, PA.—Bids are being received by the West Newton Water Co., W. Weddle, Pres., for constructing water-works. Estimated cost, $40,000. Chapin & Knowles, Frick Bldg., Pittsburg, Pa., are Engrs.

UNIONTOWN, PA.—The contract has been let to JOHN R. BENNETT & CO., of Fairmont, to build water system to supply the independent companies in the Klondyke coke region of Fayette County for the General Water Co. of Pittsburg, composed of Pittsburg and Uniontown capitalists. A reservoir of 10,000,000 gallons capacity will be built near No. 2 Thompson-Connellsville plant. The water system will cost $250,000.

WASHINGTON, D. C.—Bids are asked until noon, June 8, by the Commissioners of the District of Columbia, for furnishing water meters. (Advertised, Engineering News.)

MACON, GA.—See under Light and Power Plants.

FT. DADE (Egmont post-office), FLA.—Bids are asked until June 15 by Lieut. M. H. Barry, Constr. Q. M., Ft. Dade, for constructing 150,000-gallon steel tank and trestle and for installing ice and refrigerating plant at this post.

JACKSONVILLE, FLA. — The SYDNOR PUMP & WELL CO., of Richmond, Va., has secured contract for 980 ft. of 10-in. artesian well at $4.95 per ft. Philip Prioleau is City Engr.

PAYNES, MISS.—Drainage bonds amounting to $18,000 will soon be issued for construction in the Ascalmore Drainage District, a ditch 3½ miles long, 30 ft. wide and 6 ft. deep. Bids will soon be asked for construction. Dinkins & Caldwell, at Charleston, Miss., are attorneys. T. J. Denman, George Payne and E. Bacon, of Paynes, are Comrs.

SANDUSKY, OHIO.—Bids are asked by the Board of Public Service until June 20 for constructing mechanical filtration plant having capacity of 6,000,000 gallons of water per 24 hours. A. C. Shultz is City Engr.

EAST CLEVELAND (Cleveland post-office), OHIO.—Bids are asked by E. W. Kneen, Clk. Bd. Trustees of Pub. Affairs, until noon, May 25, for furnishing 40 tons 20-in. c-i. water pipes.

LOGANSPORT, IND.—Bids are asked until June 11 for constructing 7-mile dredge ditch. Estimated cost, $30,000. A. T. Davisson, at Rochester, Ind., is County Surv.

NORTH CHICAGO, ILL.—The following are the bids opened May 1 at the Bureau of Navigation, Washington, D. C., for constructing water supply system for naval station on the Great Lakes, North Chicago: C. A. Kees Domestic Co., St. Louis, Mo., $8,947; H. C. Patterson, Waukegan, $6,300, and F. H. Stelhart, Morgan Park, $6,650.

LA CROSSE, WIS.—The La Crosse Water Power Co. has awarded contract for constructing plant at Hatfield, on Black River, to the MORGAN SMITH CO., of York, Pa.

WEST BRANCH, IOWA.—The contract for constructing water-works has been awarded to TURNER ROLAND CO., of Des Moines, for $14,500. P. V. N. Myers is City Clk.

BIWABIK, MINN.—The following bids were received April 23 for sewer and water-works construction: PASTORET & LUNZ, Two Harbors, $45,468 (awarded contract); Alex. Sang, $45,470; F. Donnell, $45,509; W. D. Lovell, $46,870; Thos. McCoy, $47,372; Butler & Thayer, $48,250; M. Fitzgerald & Co., $50,069, and Hugh Steele, $54,417. J. S. Hopkins is Recorder.

BELLE FOURCHE, S. DAK.—Bids are asked by the U. S. Reclamation Service until 4 p. m., June 10, for furnishing about 11,000 lin. ft. of vitrified pipe. (Advertised, Engineering News.)

We are officially advised that bids were received April 10 by the U. S. Reclamation Service from (A) the S. R. H. Robinson & Son Contracting Co., 1609 Chemical Bldg., St. Louis, Mo., (B), W. D. Lovell, 1415 Eighth St., S. E., Minneapolis, Minn. and (C), J. E. Hilton, Belle Fourche, S. Dak., for constructing South Canal and structures, in connection with the Belle Fourche Project, S. Dak., as follows: Schedule 1, Section 2, (A), $103,895; Section 3, (A), $240,087; Sect. 4, (A), $44,840; Sect. 5, (A), $32,720, (B), $40,800; Sect. 6, (A), $30,415, (B), $36,050, (C), $18,300; Sect. 7, (A), $30,515, (B), $35,150, (C), $19,200; Sect. 8, (A), $37,540; (B), $46,100, (C), $26,800. Schedule 2, (A), $51,865. The bids of W. D. Lovell and J. E. Hilton were informal.

DILLON, MONT.—Bids are asked until June 5 for constructing concrete steel reinforced reservoir. George R. Metlen is City Engr.

JACKSON, MO.—See under Light and Power Plants.

ODESSA, MO.—The Chicago & Alton R. R. Co. has purchased 25 acres of land and proposes to build lake, the primary object of which is to insure permanent water supply for the company's engines. Contract has also been signed with JAMES KIRKPATRICK, of Odessa, to construct amusement resort. Estimated cost of improvements is $50,000, and of construction work $30,000. W. D. Taylor, Chicago, Ill., is Ch. Engr.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements, W. B. Dryden, Secy., until noon, May 24, for laying water pipes, etc. Charles M. Talbert is C. E., Bd. Pub. Impts.

ARGENTA, ARK.—Bids will soon be asked for constructing six miles of ditches, requiring 145,000 cu. yds. of excavation, and reinforced concrete conduit 86 ins. in diameter and 2,600 ft. long. Total estimated cost, $75,000. The work is in connection with the Pulaski County Drainage District, which is a combined system for reclaiming 2,300 acres of swamp land and furnishing storm water drainage for Argenta.

EASTLAND, TEX.—C. U. Connellee is promoting the establishment of water-works to cost about $20,000. R. F. Horton, Ch. Engr., Dallas, Texas, has recommended that dam be located about 12,000 ft. from town, where water can be secured in sufficient quantity. M. Hill, E. Roper, L. P. Cox and others have been selected as directors of new company.

HOUSTON, TEX.—The Southern Pacific R. R. Co., Wm. Hood, Ch. Engr., San Francisco, Cal., may construct a water system for its own use in Houston.

MARLIN, TEX.—Plans are being considered by the City Council for constructing lake and dam. Approximately the dam will be 900 ft. long, base 180 ft., crown 20 ft., greatest depth 35 ft. The area covered by water will be about 45 acres. E. P. Hutchings is City Secy.

LAWTON, OKLA.—It is stated that Eastern and Texas capitalists have become financially interested in the proposed irrigation of about 40,000 acres of land in the semi-arid section of Western and Southern Oklahoma to be undertaken by the Otter Creek Irrigation Co., James A. Jones, Pres. About $4,000,000 will be expended. It is expected to advertise for contracts this summer and to begin preliminary work by autumn. Proposed dam site is in Wichita mountains, six miles north of Snyder. Because of a deep canyon on north side of mountain a dam 100 ft. high can be constructed and reservoir covering several hundred sq. miles will be created. Company proposes to build dam 70 ft. high and 200 ft. long across Otter Creek, 4½ miles above Mountain Park, Okla., at point where the creek flows between granite bluffs several hundred feet high, forming a deep canyon 1½ miles long and about 200 ft. wide. Granite can be used for building dam. Grooves will be cut into the walls of the gorge into which the courses of masonry will be dovetailed. Waste water will pass around the mountain about one mile above. Three creeks meet above the canyon, where there is a level valley of 8,000 acres, which, when the dam reaches the height of 70 ft., will be converted into reservoirs with storage capacity of 10,000,000,000 cu. ft. of water. Drainage area of these creeks is about 200 sq. miles.

MUSKOGEE, IND. T.—T. J. Martin, Mayor, has let contract for installing high duty steam pumping engine of 2,000,000 gallons daily capacity to the WORTHINGTON PUMP CO.

PLATTEVILLE, COLO.—The St. Vrain reservoir is to be built four miles west of Platteville, at a cost of $250,000 by the ELECTRIC & HYDRAULIC CO., of Colorado Springs, of which William Hines is Pres. The reservoir will cover 2,881 acres and its capacity will be 1,500,000,000 cu. ft. of water. The site of the reservoir is a natural one, and a dam 48 ft. high will form one side and extend across St. Vrain Creek in order to catch its flood waters and those of its various tributaries. The reservoir will furnish water for 30,000 acres of land now uncultivated.

CANON CITY, COLO.—The question of bringing water in 30-mile pipe line down Royal Gorge is being considered, and of diverting part of the flow of Beaver Creek and bringing it to the city in a pipe line. The citizens on April 2 voted to issue $400,000 bonds for a mountain water supply.

OROVILLE, WASH.—The Oroville Water & Development Co. is reported to have applied to the County Commissioners for franchise to install and operate water-works in Oroville. It is the intention of the company to lay mains and furnish water for 16 blocks of the business section of the town, and bids are reported to have been asked for laying the pipe.

MONTREAL, QUE.—The report of John Kennedy and Ernest Marceau regarding the new water supply for Montreal has been received. It calls for construction of new conduit from Point St. Charles to Lachine, which will supply 50,000,000 gallons of water to the city per 24 hours, and will also develop 5,000 HP. at the most unfavorable seasons. It is understood that bids will soon be called for.

SIMCOE, ONT.—The city has awarded contracts as follows: Construction of water tower, the HUNTER BRIDGE CO., Kincardine, at $7,400; foundation for same, the same firm at $1,250; supply of pipe, J. L. COATES & CO., Ottawa, at $36.00 per ton; supply of valves, hydrants, etc., KERR ENGINE COMPANY, Walkerville.

CHILLIWACK, B. C.—Extensive improvements are to be made to the civil water-works system. Address Supt. Stott, of Water Works Dept., New Westminister, B. C.

BATTLEFORD, SASK.—The MUNICIPAL CONSTRUCTION CO., Regina, Sask., has received contract for installation of water-works system. Cost, $51,000. Galt & Smith, of Toronto, Ont., are Consult. Engrs.

SEWERAGE.

BOSTON, MASS.—We are officially advised that bids have been received by the Metropolitan Water and Sewerage Board for constructing extension of High Level Sewer, South Metropolitan System, Brookline, from (A), Coughlan & Sheils Co., 104 Hanover St., Boston; (B), Jones & Meehan, 10 Tremont St., Boston; (C), George M. Bryne Co., 7 Water St., Boston; (D), Bruno, Salomone & Petitti, 23 Court St., Boston; (E), James Driscoll & Son, Brookline; (F), T. J. O'Connell, Dorchester; (G), Bryne Contracting Co., 53 State St., Boston, as follows: Contract 55, (A), $60,737; (B), $49,568; (C), $46,782; (D), $45,490; (E), $44,540; (F), $44,430; (G), $40,320. Contract 56, (A), $52,685; (B), $45,705; (C), $59,680; (D), $50,850; (E), $43,350; (F), $44,585. Both contracts are part of Section 82.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., June 12, for furnishing material and constructing relief sewer in portions of Gold St. and Johnson St., Section No. 1, Division No. 2, Gold St. system. See advertisement for estimated quantities of material and work. (Advertised, Engineering News.)

Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., May 29, for constructing sewers in portions of various streets, Boro. of Brooklyn.

Bids were opened April 25 by Louis F. Haffen, Pres. Boro. of the Bronx, for construction of sewers, as follows: For sewer and appurtenances in Mosholu Parkway North, between Perry Ave. and Jerome Ave. (Contract 19). The lowest bidder was the WAKEFIELD CONSTRUCTION CO., of Williamsbridge, as follows: 570 lin. ft. concrete sewer, 3 ft. 3 in. diameter, $10; 1,285 lin. ft. concrete sewer, 2 ft. 9 in., $9.21; 14 lin. ft. pipe sewer, 24-in., $4; 6 lin. ft. pipe sewer, 18 in., $4; 730 lin. ft. pipe sewer, 15 in., $3.87; 585 lin. ft. pipe sewer, 12 in., $3.50; 211 spurs for house connection, over and above the cost per lin. ft. of sewer, $1.60; 28 manholes, complete, each, $50; 4,400 cu. yds. rock excavation, $2; 25 cu. yds. Class B concrete, $4; 175 cu. yds. rubble masonry in mortar, $5; 5 M. ft. timber for foundations, $1, and 100 lin. ft. 12-in. drain pipe, $1; total, $33,978. Totals of other bids received were: Leahy Contracting & Construction Co., $40,156; I. S. Rogers, $35,645; W. T. Murray, $59,466; Briggs & McLaughlin, $37,849; Wm. G. Leeson, $45,453; McHarg Barton Co., $38,308; John B. Malatesta, $34,486; C. W. Collins, $48,318; Haggerty Construction Co., $43,823, and McDonald & Barry, $36,571. Sewers in East 165th St., Grand Boulevard, and Concourse (west side), and Grand Boulevard and Concourse (east side) (Contract 20). Lowest bidder, C. W. Collins, Fordham Road and Morris Ave., as follows: 265 lin. ft. concrete sewer, 49 × 56 in., including steel bars for reinforcement, $15; 303 lin. ft. concrete sewer, 45 × 50 in., $12; 298 lin. ft. concrete sewer, 3 ft., $10; 704 lin. ft. pipe sewer, 30 in., $7; 827 lin. ft. pipe sewer, 18 in., $4; 425 lin. ft. pipe sewer, 15 in., $3.50; 640 lin. ft. pipe sewer, 12 in., $3; 235 spurs for house connections, $1; 30 manholes, complete, $60; 1,425 cu. yds. rock excavation, $3.50; 25 cu. yds. concrete, $5; 50 cu. yds. rubble masonry in mortar, $4; 100 cu. yds. broken stone for foundations, $1; 30 M. ft. timber for foundations, $40; 10,000 lin. ft. piles below sills, 30 cts.; 100 lin. ft. 12-in. drain pipe, $1; 20 receiving basins, each, $160; total, $37,182. Totals of other bids received were: Thos. F. Murray, $55,368; McDonald & Barry, $46,589; Culgin & Pace Contracting Co., $46,572; Briggs & McLaughlin, $40,055, and Jos. Burns, $37,307.

Sewers in East 170th St., Grand Boulevard (west side), between 167th and 172d Sts., across Grand Boulevard at Belmont St., and other streets (Contract No. 21): Lowest bidder, C. W. Collins, as follows: 110 lin. ft. pipe sewer, 18 in., $6.70; 905 lin. ft. pipe sewer, 15 in., $6.20; 2,825 lin. ft. pipe sewer, 12 in., $5.70; 220 spurs for house connections, $1; 41 manholes, each, $60; 8 receiving basins, complete, $150; 4,145 cu. yds. rock excavation, $1; 25 cu. yds. concrete, $4; 5 cu. yds. broken stone, $1; 5 M. ft. timber for foundations, $5; 25 lin. ft. 12-in. drain-pipe, 50 cts.; total, $30,618. Totals of other bids received were: Thos. F. Murray, 1872 Jerome Ave., $38,247; Jos. Burns, 1929 Amsterdam Ave., $33,997; Jos. M. Stanton, 1431 Webster Ave., $34,547; Briggs & McLaughlin, 19 East 130th St., $33,661; Culgin-Pace Contracting Co., 787 Tremont Ave., $37,615.

NEW YORK, N. Y.—Bids are asked until 11 a. m., June 4, by Louis F. Haffen, Pres. Boro. of the Bronx, for constructing sewers and appurtenances in various streets of the Bronx.

GLOVERSVILLE, N. Y.—The Sewer Committee has let contract to ALBERT M. BANKER, of Johnstown, for constructing sewers on McNab Ave. and West Fulton and Rose Sts., at $3,153.

MORRISTOWN, N. J.—Plans and specifications may be seen at office of Williams, Proctor & Potts, Inc., Consult. Engrs., 17 Battery Pl., New York, for constructing about 28 miles of pipe sewers, sewage disposal plant, etc., as advertised in Engineering News, May 16-23.

LATROBE, PA.—Bids are asked by James C. Oursler, Secy. of Council, 332 Chestnut St., until 8 p. m., May 27, for construction of 2,260 ft. 12-in. and 665 ft. 18-in. sewers in Sixth Ward.

McKEESPORT, PA.—Bids are asked until noon, June 9, for constructing Crooked Run sewer and for main sewer in Ninth Ward.

BOWMAN BROS. have been awarded contract for construction of Pickwick Alley sewer and HOHMAN & CALDWELL for West Fifth Ave. sewer.

Plans are being prepared for constructing sewers in Packer, Walnut, Cavin, Sheridan, Jim Crow Sts., and bids will be asked for in June.

PHILADELPHIA, PA.—The construction of sewers through 60 miles of the city's streets, to cost about $1,000,000, is reported to have been sanctioned by State Health Commissioner Dixon, in conformity with the new law which provides for the approval by the Health Department of the Commonwealth of the building of sewers emptying into navigable waters of the State. The Health Department has authorized the construction of the following sewer systems: Pennypack Creek Dist., including Torresdale; Franford Creek Dist., including Germantown, Tacony and Wingohocking; Main Delaware River Dist., including the central seection of the city; Cobbs' Creek Dist., including Overbrook and those sewers of Lower Merion, Montgomery County, which empty there, and the Schuylkill River Dist., including West Philadelphia, Manayunk and Wissahickon.

WASHINGTON, D. C.—Bids were received May 13 by the District Commissioners for construction of sewer as follows: (A), ordinary excavation, per cu. yd.; (B), sewer brick masonry; (C), Frederick brick masonry; (D), concrete masonry "D." E. G. Gummell, Eckington, D. C., (A), $1.25; (B) $17; (C), $20; (D), $8. R. J. Beall Construction Co., 1216 F St., N. W., Washington, (A), $1.40; (B), $15.50; (C), $19.25; (D), $9.70. Warren F. Brenizer, Washington, D. C., (A), $1.07; (B), $15; (C), $18; (D), $8.50.

SANDERSVILLE, GA.—We are officially advised that contract for constructing about six miles of sewers with 60 manholes and ten automatic flush tanks has been awarded to CHARLES E. PERRY, of Canajoharie, N. Y., at $17,782. Bids were also received from the following: E. C. Seiz Co., Atlanta, Ga., $18,021; Pouncey Paving Co., Helena, Ark., $18,641; Bryan & Co., Jacksonville, Fla., $18,793; Crockett Paving Co., Birmingham, Ala., $19,097; General Contracting & Construction Co., Atlanta, Ga., $20,748; Abee & Edwards, Hickory, N. C., $21,625; Georgia Engineering Co., Augusta, Ga., $23,859; Bosler & Flynn, Chattanooga, Tenn., $23,860. Arthur Pew, 619 Temple Court, Atlanta, Ga., is Consult. Engr.

VICKSBURG, MISS.—The city has voted to issue $250,000 in bonds for constructing sewers to cover the entire city.

EAST LIVERPOOL, OHIO.—Bids are asked by the Board of Public Service until noon, May 30, for constructing sewer on East Seventh St., Jackson Sq. and Eighth St. J. W. Gipner is Secy.

EVANSVILLE, IND.—NEWMAN & VINEYARD have been awarded contract to construct sewers in Denby, Bray and Huston Aves., at a uniform price of 31 cts. per lin ft. for 18, 15 and 10-in. tile; $1 for Y's, $12 for manholes and $15 for inlets. FRANK MAGINNIS has been awarded contract for sewer in Block 34, Heidelbach & Elsas enlargement, at 55 cts. per lin. ft. for 10-in. vitrified pipe, $1.25 for Y's and $18 for manholes. T. W. Murray bid $1, 82 cts. and 55 cts. respectively for 18, 15 and 10-in. pipe for Denby and Bray Aves., with Y's ranging from $2.50 to $1.25, according to side; manholes $25 and inlets $30; Frank Meguiar bid 73, 61 and 43 cts. respectively for 18, 15 and 10-in. pipe on Bray, Denby and Huston Aves., with $2.50, $2 and $1.25 for Y's, manholes $17, inlets $29; Mr. Murray bid 55 cts. on the pipe for Heidelbach and Elsas sewer, $20 for manholes and $1.50 for Y's. James D. Saunders is City Engr.

EDWARDSVILLE, IND.—Contract for constructing sewers in Sewer District No. 5 has been let to WOLF, MAUPIN & CURDIE, Alton, Ill., at $27,467. Bids were also received as follows: R. S. Spurling, Edwardsville, $27,588; John Hamm, Litchfield, Ill., $28,046, and O. T. Dunlap, Edwardsville, $29,667. Charles A. Sheppard is Engr.

LANSING, MICH.—Plans are being prepared by the City Council for constructing 7,500 ft. of sewers in Park Place addition. H. A. Collar is City Engr.

BELLEVILLE, ILL.—Ordinances have been passed by the City Council ordering the improvement of seven streets by paving and sewering as follows: Freeburg Ave., estimated cost, $22,000; Main St., $16,000; Spring St., $35,000; B St., $54,000; Mascoutah Ave., $36,000; Charles St., $38,000; First St. and Centerville Ave., $43,000. An ordinance for construction of sewer system in Tower Grove addition was also passed. Estimated cost, $25,000. Fred. Deutschmann, Jr., is City Engr.

OTTAWA, ILL.—Bids are asked by the City until 2 p. m., June 18, for constructing sewer system. For approximate quantities of work see advertisement. Charles F. Wilson is City Engr. (Advertised, Engineering News.)

GRINNELL, IOWA.—Bids are asked by Willis Davis, City Clk., until 7.30 p. m., May 25, for reconstructing septic tank system.

DILLON, MONT.—The following bids were received for constructing vitrified pipe sewers by City Council May 15: Bardsen & Co., Butte, Mont., 8-in. sewers, $1.20 per ft.; 10-in., $1.31; 12-in., $1.40; 10 ft. in depth; concrete manholes, $75.00; flush tanks, $120 each. Wheelright Construction Co., Ogden, Utah, 8-in., $1.35; 10-in., $1.24; 12-in. $1.45 per ft.; manholes, $76.00; flush tanks $120.00. J. C. Waggoner, Helena, Mont., 8-in., $1.30; 10-in., $1.50; 12-in., $1.60; manholes, $75.00, flush tanks, $45.00; JOHN KENT & CO., Dillon, Montana (awarded contract), 8-in., $0.70; 10-in., $0.80; 12-in., $0.90 per ft.; manholes, $105.00; flush tanks, $125.00; total amount of contract, $3,150. George R. Metlen is City Engr.

UNIVERSITY, N. DAK.—Bids are asked by the Board of Trustees, J. W. Wilkerson, Secy., until 10 a. m., June 4, for constructing about 8,000 ft. 12-in. sewers.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements, W. B. Dryden, Secy., until noon, May 28, for constructing Glaise Creek sewer, embracing 2,000 ft. of sewer 12 ft. 3 in. in mean diameter, with inlets, manholes, junctions, etc. Charles M. Talbert is C. E. Bd. Pub. Impts.

Bids are asked by the Board of Public Improvements until noon, June 7, for constructing Harlem Creek sewer, embracing 2,100 ft. of sewer 25 ft. wide by 16 ft. 10 ins. high, with inlets, manholes, junctions, etc.

HOUSTON, TEX.—Bids are asked until June 10 for constructing receiving tank and sanitary sewers. T. Binghurst is City Secy. I. Austin Miller is City Engr.

GARBAGE DISPOSAL.

PORTLAND, ME. — The PORTLAND STREET SPRINKLING CO. has been awarded contract for street sprinkling, at $16,021, eight of the 20 miles to be sprinkled with electric sprinkler. The American Car Sprinkling Co. bid $16,086.

WATERTOWN, MASS.—The Board of Health has let contract for collecting and removing ashes, garbage and commercial waste to THOMAS DWYER, at $3,700.

NEW YORK, N. Y.—The following bids were received May 7 by George Cromwell, Pres. Boro. of Richmond, for constructing with reinforced concrete, foundations, building, runway, connecting flue and chimney for refuse destructor at West New Brighton, Boro. of Richmond: McHarg, Bart & Co., 299 Broadway, New York, $37,700; Webber Construction Co., Staten Island, N. Y., $44,003.

WASHINGTON, D. C.—S. P. BAYLEY, JR., 472 Louisiana Ave. N. W., has secured the contract for removal of ashes from August 1, 1907, to June 30, 1910, at $54,000 per year, and I. T. BROWN, 18 Broadway, New York, N. Y., for miscellaneous refuse for same period at $16,000 per year.

COLUMBUS, OHIO.—Bids will soon be asked, it is reported, by the Board of Public Service for constructing incinerator.

OMAHA, NEB.—The City Council has let contract to T. B. McPHERSON, of South Omaha, for removing garbage for 15 years.

SALT LAKE CITY, UTAH.—The DIXON ENGINEERING CO., Toledo, Ohio, has been awarded contract to build extension to garbage crematory, doubling present capacity of 30 tons, for $9,750. Louis C. Kelsey is City Engr.

STREETS AND ROADS.

CONCORD, N. H.—Bids are asked by the State Highway Dept., until 5 p. m., June 5, for constructing two macadam roads in Bedford and Merrimack. Approximate length, two miles. A. W. Dean is State Engr.

LAWRENCE, MASS.—The LAWRENCE GRANITE CO., through M. J. O'Donnell, has been awarded contract for furnishing Philadelphia granite blocks, small size, at $1.25 per sq. yd., and Boston block, at $1.35 per sq. yd.; also for furnishing edgestones, at 49 cents per ft. and flagging, at 62 cts. per ft. A. D. Marble is City Engr.

TROY, N. Y.—The WARREN BROTHERS CO., 93 Federal St., Boston, Mass., will construct 5,100 sq. yds. of bitulithic pavement. Edward B. Cary is City Engr.

SYRACUSE, N. Y.—WARREN BROTHERS CO., 93 Federal St., Boston, Mass., has received contract for constructing 3,750 sq. yds. of bitulithic pavement. Henry C. Allen is City Engr.

ALBANY, N. Y.—Charles H. Gaus, Mayor, has approved ordinances for paving Sheridan Ave. from the west line of the Northern Boulevard to the east line of Lexington Ave. with granite block, and for laying vitrified pipe sewer in North First St., from North Pearl St. to Water St. Walter Melius is City Engr. Isidore Wachsman is Clk. Bd. Contract and Supply.

NEW YORK, N. Y.—Bids are asked by J. A. Bensel, Comr. of Docks, until noon, June 3, for furnishing all materials and repairing asphalt pavement on North and East Rivers front.

LONG ISLAND CITY, N. Y.—Bids as follows were received by Joseph Bermel, Pres. Boro. of Queens, May 7, for regulating, grading, curbing and laying sidewalks and crosswalks on Lawrence St., from Flushing to Wolcott Aves., First Ward: Joseph A. Boyce, $40,009; Bart Dunn, $42,596; Dennis McCarthy, $26,108; C. Fred Johnson, $32,-205; John E. Quinn, $33,527; Thomas Callanan, $31,696; Henry J. Mullen, $28,790; George H. Smith, $33,600; Atlanta Contracting Co., $31,250; Maletesta & Medill, $35,-110; M. J. Quigg, $33,645; George Reasner, $31,780. Regulating, grading, curbing and laying sidewalks and crosswalks on Harris Ave. from Jackson to Hunter Aves., and from The Crescent to Vernon Ave., First Ward: George H. Smith, $34,015; T. A. Brown, $32,159; Atlanta Contracting Co., $30,133; Dennis McCarthy, $23,361; Joseph A. Boyce, $31,941; Henry J. Mullen, $28,627; Thomas Crimmins Contracting Co., $39,569; John E. Quinn, $35,678. Regulating, grading, curbing and laying sidewalks and crosswalks on Hoyt Ave., from the Boulevard to Lawrence St., and from Debevoise Ave. to Flushing Ave., First Ward: George A. Smith, $37,230; Maletesta & Medill, $36,100, Bart Dunn, $37,092; Dennis McCarthy, $27,-29?; Thomas Callanan, $32,370; John E. Quinn $37,632; Atlanta Contracting Co., $32,305; Henry J. Mullen, $29,890; W. E. Lowe, $33,460; Joseph A. Boyce, $34,425; George Reasner, $53,260; C. Fred Johnson, $34,590. Regulating, grading and repaving with macadam pavement the roadway of the Boulevard, from Park Ave., to Carnaga Ave., Fifth Ward: Joseph A. Boyce, $37,690; Pease Brothers, $40,000; Atlanta Contracting Co., $90,000; Henry J. Mullen, $46,000; William C Card, $72,000; Thomas F. Tuohy Co., $37,000. Regulating, grading, curbing and repaving with vitrified fire-clay brick or block pavement the roadway of the Boulevard, from Remsen to Eastern Aves., Fifth Ward: John J. Young, $20,162; Asphalt Construction Co., $21,795; Pease Brothers, $22,327; Thomas F. Tuohy Co., $19,953; Atlanta Contracting Co., $16,220. Regulating, grading and repaving with wood block pavement on concrete foundation the roadway of Bergen Ave., from Fulton to Hillside Aves., Fourth Ward: Norfolk Creosoting Co., $16,345; Republic Wood Paving Co., $16,172; Uvalde Asphalt Paving Co., $17,805; Asphalt Construction Co., $17,078; U. S. Wood Preserving Co., $17,025. Regulating, grading and repaving with macadam pavement the roadway of the Merrick Road, from Fulton St., to easterly line, Borough of Queens: Joseph A. Boyce, $43,898; Atlanta Construction Co., $70,050; Henry J. Mullen, $51,370; John E. Quinn, $55,573; William C. Card, $74,720; Twombley & Eldert, $48,101; Pease Brothers, $36,893. Regulating, grading, curbing and laying sidewalks on Washington Ave., from Vernon Ave., to East River, First Ward: Joseph A. Boyce, $37,398; John E. Quinn, $48,183; Pease Brothers, $40,341; Bart Dunn, $30,669; M. J. Quigg, $29,167; Henry J. Mullen, $27,611; Atlanta Construction Co., $31,028; P. J. Murray, $27,416. Regulating, grading, curbing and flagging and paving with asphalt pavement on concrete foundation the roadway of Onderdonk Ave. from Palmetto to Stanhope Sts., Second Ward: Continental Asphalt Paving Co., $35,769; Barber Asphalt Paving Co., $33,367; Uvalde Asphalt Paving Co., $32,303. Regulating, grading, curbing and repaving with vitrified fire-clay brick or block pavement on a relaid macadam foundation the roadway of White St., from Mott to Carnaga Aves., Fifth Ward: Thomas F. Tuohy Co., $10,332; Pease Brothers, $11,-666; Atlanta Construction Co., $8,364; John J. Young, $9,781; Asphalt Construction Co., $11,189. Regulating, grading, curbing and repaving with vitrified fire-clay brick or block pavement on a relaid macadam foundation the roadway of Carnaga Ave., from Central Ave., to the Long Island Railroad: Asphalt Construction Co., $24,180; Thomas F. Tuohy Co., $22,440; Atlanta Construction Co., $18,120; John J. Young, $19,740; Pease Brothers, $25,470. Furnishing and delivering to the Bureau of Highways broken stone and screenings of limestone, in the Borough of Queens: Pease Brothers, $10,400; Thomas F. Tuohy Co., $11,200. Furnishing and delivering to the Bureau of Highways broken stone and screenings of trap rock in the Borough of Queens: Pease Brothers, $64,000; Thomas F. Tuohy Co., $56,000; John Donaldson, $36,800.

NEW YORK, N. Y.—Bids are asked until 11 a. m., June 4, by Louis F. Haffen, Pres. Boro. of the Bronx, for regulating, grading, paving and constructing sidewalks on various streets in the Bronx.

Bids are asked until 11 a. m., June 5, by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating, grading and paving various streets in Brooklyn.

BELVIDERE, N. J.—Joseph R. Thatcher, of Washington, N. J., Dir. of the Board of Chosen Freeholders, states that the lowest bid opened April 25 by the Road Commission at the Union Square Hotel in Phillipsburg, for the improvement (by telford macadam) of the Harmony Road, was submitted by the Miles Tighe Construction Co., of Easton, Pa., for $35,063. All bids were rejected for this work, and new bids will be received until June 3.

SALEM, N. J.—Bids are asked by the Road Commissioner of the Board of County Chosen Freeholders, J. F. Ayers, Dir., until 8 p. m., June 10, for grading and placing oyster shell or gravel surface on Quinton Road, Quinton Township, for a distance of 2.65 miles. (Advertised, Engineering News.)

NEWARK, N. J.—An additional contract for constructing 15,000 sq. yds. of bitulithic pavement has been awarded the STANDARD BITULITHIC CO., 253 Broadway, New York. M. R. Sherrerd is City Engr.

EBENSBURG, PA.—Bids are asked by Thomas Davis, President of the Council, until noon, May 27, for grading, paving and curbing Julian St. and Cherry Alley with brick. Bids for curbing must be separate from those for grading and paving, include native sandstone, Ohio stone and concrete, and separate bids for resetting old curbing. J. L. Elder is City Engr.

BALTIMORE, MD.—The County Highways Commission has awarded contract to F. E. SCHNEIDER & CO., Law Bldg., Baltimore, for paving, laying curb, etc. Henry G. Shirley is Road Engr., Baltimore County.

SPARTANBURG, S. C.—A contract for constructing 11,000 sq. yds. of bitulithic pavement has been awarded the ATLANTIC BITULITHIC CO., of Richmond, Va.

ATLANTA, GA.—The Commissioners of Fulton County will lay 10,815 sq. yds. of bitulithic pavement, having purchased the necessary plant and materials from the WARREN BROTHERS CO., 93 Federal St., Boston, Mass.

PALATKA, FLA.—Bids are asked until June 4 for construction of granolithic sidewalks on First and River Sts. J. N. Blackwell is City Clk.

MONTGOMERY, ALA.—Bids are asked by R. S. Williams, City Treas., until June 3, for paving Caroline and Wilson Sts. with vitrified brick, asphalt, bitulithic pavement or gravel, including all necessary granite curbing and stormwater sewer.

HATTIESBURG, MISS.—An additional contract for laying 7,350 sq. yds. of bitulithic pavement has been awarded the SOUTHERN BITULITHIC CO., of Nashville, Tenn. Richard C. Huston is City Engr.

NEW ORLEANS, LA.—The SOUTHERN BITULITHIC CO., of Nashville, Tenn., has received contract for constructing 26,260 sq. yds. of bitulithic pavement. W. J. Hardee is City Engr.

LOUISVILLE, KY.—Bids are asked by the Board of Public Works until May 29 for grading, curbing and paving 23 sidewalks with granitoid pavement. Work embraces 2,700 cu. yds. excavation, 900 lin. ft. limestone curb, 7,200 sq. yds. pavement. Estimated cost, $10,000. J. P. Claybrook is Ch. Engr., Dept. Pub. Wks.

G. W. GOSNELL has been awarded contracts by the Board of Public Works for grading, curbing and paving seven streets with vitrified block pavement.

L. R. FIGG has secured contracts for grading, curbing and paving six streets with vitrified block pavement.

CADIZ, OHIO.—Bids are asked by W. H. Lucas, Town Clk., until noon, June 1, for 17,700 sq. yds., more or less, of street paving with brick. The Riggs-Sherman Co., 613 Nasby Building, Toledo, Ohio, are Engrs. (Advertised, Engineering News.)

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service, M. J. Keefe, Clk., until noon, June 5, for improving Beechmont Ave. as follows: 3,900 ft. brick gutters; 18,000 cu. yds. paving, rip rap; 7,300 cu. yds. broken stone; 150,000 cu. yds. grading. Estimated cost, $99,796.00. C. N. Dannenhower is City Engr.

CHARDON, OHIO.—Bids are asked by Sam Huston, State Highway Comr., until June 11, for constructing macadam highway.

ZANESVILLE, OHIO.—Bids are asked by Sam Huston, State Highway Comr., until June 13, for constructing macadam highway.

CALDWELL, OHIO.—Bids are asked until June 14 for furnishing material and paving with brick Court House Square, about 6,900 sq. yds. Hugh F. Newhart is Village Clk.

AKRON, OHIO.—Bids were received May 3 by the Board of Public Service for paving and laying sewers in Cuyahoga St. and Marvin Ave., as follows: Marvin Ave.: John O'Neil, $11,768; O. W. Myers, $15,160; Hunt & Wiglen, $11,923; S. W. Parshall & Co., $12,199; McAllonan Bros., $11,167; McShaffrey Bros., $11,125; G. E. Kasch, $11,275. Cuyahoga St.: John O'Neil, $26,071; McAllonan Bros., $28,099; Hallinan Bros., $29,675; P. T. McCourt, $25,092; Barnett & O'Marr, $25,430; McShaffrey & Son, $27,200. J. W. Payne is City C. E.

CHILLICOTHE, OHIO.—The contract for paving Hickory St. has been awarded to JARDINE BREWER & TOMLINSON, of Chillicothe, for $9,161. H. M. Redd is City Engr.

JASPER, IND.—The County Commissioners have awarded contract for construction of 3½ miles of stone road to EDWARD TAYLOR, for $6,735.

CLAY CITY, IND.—The County Commissioners have awarded contract for construction of 24 miles of gravel road in Harrison Township to ACKERMAN & CO., of Laporte, Ind., at $3.007 per mile.

GARY, IND.—Bids are asked by the Town Trustees until 3 p. m., May 28, for improvement of Broadway by grading and paving with paving brick laid upon sand foundation, with cement sidewalk and curb and suitable street and alley returns. C. O. Holmes is Town Clk.

GARRETT, IND.—Bids are asked by Wm. Watson, City Clk., until May 28, for constructing approximately 9,000 sq. yds. of street asphalt pavement.

DANVILLE, IND.—Bids are asked by the County Commissioners until 10 p. m., May 28, for construction of road in Liberty Township, 5,343 ft. long.

EAST ST. LOUIS, ILL.—W. H. HILL has secured the contract for paving Ninth St., from St. Clair Ave. to the northeasterly city limits at the following bid: 700 ft. 12-in. pipe, laid, 60 cts.; 8,770 lin. ft. limestone curb, 70 cts.; 3,800 cu. yds. excavation, 35 cts.; 7,000 cu. yds. fill in excavation, 60 cts., and 20,700 sq. yds. Purington brick, $1.63; total, $45,330. Totals of the other bidders on this class of brick were: McCabe & Co., $47,404, and J. & P. Keeley, $46,889. W. J. Crocken is City Engr.

LA CROSSE, WIS.—Bids are asked by the Board of Public Works until 2 p. m., May 28, for paving, grading, etc., portions of various streets. W. S. Woods is City Engr.

FT. MEADE, S. DAK.—Bids are asked by Lieut. D. H. Biddle, Const. Q. M., until 2 p. m., June 1, for constructing macadam roads and cement sidewalks.

CARTERVILLE, MO.—Bids are asked until June 6 by H. E. Moody, City Clk., for constructing cement sidewalks on eleven streets, amounting to about 140,000 sq. ft. Estimated cost, $18,000.

SEDALIA, MO.—Bids are asked by the Road Board, W. H. Powell, Secy., until 4 p. m., June 1, for constructing rock and gravel roads.

ST. LOUIS, MO.—The Board of Public Works has awarded to the GRANITE BITUMINOUS PAVING CO. contract for constructing 16,870 sq. yds. of bitulithic pavement. Charles M. Talbert is C. E., Bd. Pub. Impts.

BELLINGHAM, WASH.—The Board of Public Works has awarded contract to RIDDLE & KAVANAUGH to grade 16th St. for $4,000. No bids were received for grading Humboldt and Franklin Sts.

BALLARD, WASH.—W. F. MANNEY & CO have been awarded contract for improving Walnut St. for $6,104, and paving Park Pl. with brick for $4,385.

TACOMA, WASH.—F. A. KEASAL has been awarded contract for grading South 17th and South 18th Sts. for $6,350. Frank L. Davis is City Engr.

EUGENE, ORE.—A contract for constructing 10,383 sq. yds. of bitulithic pavement has been awarded to the WARREN CONSTRUCTION CO., Oregon Bldg., Portland, Ore.

SALEM, ORE.—A contract for constructing 9,100 sq. yds. of bitulithic pavement has been awarded to the WARREN CONSTRUCTION CO., Oregon Bldg., Portland, Ore.

PORTLAND, ORE.—The WARREN CONSTRUCTION CO., Oregon Bldg., Portland, has secured contract for laying 13,766 sq. yds. of bitulithic pavement.

SAN JOSE, CAL.—Bids are asked until June 4 by the Board of Supervisors, F. E. Mitchell, Chn., for furnishing material and improving roadbed of Monterey Road for a width of 12 ft., and extending from the city limits to a point 300 ft. north of Stone Ave.

WHIPPLE BARRACKS (Prescott post-office), ARIZ.—Bids are asked by Capt. Chas. C. Walcutt, Jr., Const. Q. M., until 3 p. m., June 1, for construction of roads and walks at Whipple Barracks.

TORONTO, ONT.—A contract for constructing 5,219 sq. yds. of bitulithic pavement has been awarded to the WARREN BITUMINOUS PAVING CO., of this city. C. H. Rust is City Engr.

REGINA, SASK.—The WARREN BITUMINOUS PAVING CO., of Toronto, Ont., has received contract for laying 31,250 sq. yds. of bitulithic pavement.

MANUFACTURING PLANTS.

WATERVILLE, ME.—The ... URINTON CO., of Waterville, has been awarded the contract for addition to the ... and paper mills of the Hollingsworth & Whitney Co., in Winslow. The addition will ... 400 ft. of one-story with high basement, and will be devoted almost entirely to a ... for printing the product. The room now occupied by the company for printing purposes will be used as a paper machine room, and one machine will be added, increasing the product of the mills nearly one-half.

TILTON, N. H.—The Tilton ... tical Co. proposes to erect an addition to its plant. The building will be 160 × 40 ft., two stories high, and a 125-HP. power ... will be built. Machine shop equipment will be installed. L. W. Bugbee is Supt. ... Forrest & Cunningham, Concord, are Ar...

NORTH BENNINGTON, VT.—The H. C. White Co., North Bennington, has awarded contract for erecting new factory. The building will have brick walls, with concrete floors, beams, roofs, girders and columns, and will cost approximately $... W. F. Dean, of Boston, is Engr.

PITTSFIELD, MASS.—Plans have been prepared by the Stanley Electric Co. for a foundry building soon to be erected on the corner of Lower East St. and W... Ave. The building is to be in the form of a letter L and will be a combination monitor and 3-story design. In one of the monitor parts of the structure will be the main casting-room for generator frames, bed..., etc., and another department will be given over to the casting of small parts by machinery. The building is to cost about $300,000 and a large amount will also be expended for huge cranes, pattern-making and ... ma-chinery.

PAWTUCKET, R. I.—The contract for constructing mill of the Lebanon Mill Co. has been awarded to WILMARTH & McKILLOP, Freeman St., Pawtucket, and operations will begin shortly. The structure will be of brick and stone and cost $25,000. The company manufactures knit goods and underwear.

BRIDGEPORT, CONN.—The Electric Cable Co., Crescent St., will build an addition to its plant at Bridgeport. The new building will be of concrete and brick, and will be of fireproof construction and equipment. The addition will be devoted exclusively to the production of weatherproof wires and cables.

The Hathaway Mfg. Co., Bostwick Ave., Bridgeport, Conn., manufacturer of metal garter trimmings, buckles, etc., is to extend its works by the erection of a 1-story addition 51 × 64 ft.

NIAGARA FALLS, N. Y.—The Niagara Falls Cotton Yarn Co., capitalized at $500,-000, will erect at once a cotton spinning mill, 600 × 145 ft., four stories in height, having a capacity of 10,000 spindles, which will be operated by Niagara electrical power. The company has purchased twelve acres of land, and it is the intention later on to increase the capacity of the plant to 50,000 spindles.

GOSHEN, N. Y.—J. H. Newbury, Spring St., Goshen, whose foundry was recently destroyed by fire, will rebuild, making the new plant about one-third larger than the old one. As the machinery department was damaged very little, no new machinery will be required, but later on a new engine will be needed.

ERIE, PA.—Louis Lehle, 103 Rand St., Chicago, is preparing plans for remodeling a brewery plant at Erie for the Jackson-Koehler Branch of the Erie Brewing Co., of this town. The new building will be built of brick, steel and reinforced concrete, with galvanized iron cornice, skylight and composition roof. Cost, $222,000.

INDIANA, PA.—Corrigan, McKinney & Co., of Cleveland, Ohio, will build an additional blast furnace at their plant in Josephine, Indiana County, Pa., and work is to be started at once. The new stack will be a duplicate of the present one and will be 20 × 85 ft., and have a daily capacity of about 400 tons.

PITTSBURG, PA.—The Reinforced Brazing & Machine Co., Arrott Bldg., Pittsburg, whose works were recently destroyed by fire, will rebuild on the old site and will erect a steel and brick building, 100 × 100 ft., which will be equipped with machine shop tools and necessary brazing equipment.

The Des Moines Bridge & Iron Works will erect a branch plant near Pittsburg on Nevilles Island, in the Ohio River.

YORK, PA.—The contract for erection of the new plant of the York Dental Supply Co., the plans for which were prepared by Hamme & Leber, Archs., Wiest Bldg., has been awarded to JACOB SEACHRIST & SON. Cost, $70,000.

JOHNSTOWN, PA.—The National Radiator Co., Central St., Johnstown, has decided to enlarge its plant and install new equipment.

LEBANON, PA.—The Lebanon Valley Chain Co., incorporated to manufacture chains at Lebanon, has let the contract for its first buildings to A. H. WHITMER, of Lebanon. The buildings are to be completed by July 1. They will be 40 × 75 and 20 × 120 ft. It is planned to begin operations as soon as the structures are finished.

CHARLOTTE, N. C.—The Elizabeth Mills have decided to double the present plant of 6,000 spindles, and will expend about $50,000.

KINSTON, N. C.—The Kinston Cotton Mills will erect an addition to contain about 35,000 sq. ft. of floor space in order to provide room for 4,500 spindles which will be installed. No contracts have been let for building or machinery. The present equipment is 12,000 spindles.

GREENVILLE, S. C.—Southern Ry. Co. has awarded contract to the J. F. GALLIVAN CONSTRUCTION CO. for erection of machine shop to contain engine and boiler-room. A power plant probably will be built.

SUNFLOWER, ALA.—Sunflower Lumber Co. will erect and equip building at cost of $15,000, 40 x 150 ft., two stories, daily capacity, 40,000 ft. yellow-pine and hardwood lumber. A drykiln and woodworking machinery will be added. Capital stock is $55,000. L. Flora is Mgr.

NEW ORLEANS, LA.—St. Bernard Rendering & Fertilizer Co., St. Andrew and Rousseau Sts., New Orleans, will advertise for bids for construction of proposed plant to manufacture fertilizers, refined oil, etc. The initial structures will cover an area of 180 x 97 ft., and will be constructed of brick, three stories high. Other buildings, including stables, warehouses and cold-storage plant, will be erected. Water-works and electric plant, fire protection equipment and machinery for evaporating odorous tank waters will be installed. About $100,000 will be expended. Andrew Fitzpatrick, New Orleans, is Pres., and E. J. Mayer, Chicago, Ill., Vice-Pres.

LOUISVILLE, KY.—The Louisville Varnish Co. is having plans prepared for a new plant, to cost $30,000, at 15th and Maple Sts.

YOUNGSTOWN, OHIO.—The Youngstown Car & Mfg. Co., Youngstown, Ohio, builder of standard wooden freight cars and wooden or steel industrial cars, has awarded a contract to the McCLINTIC-MARSHALL CONSTRUCTION CO. for erection of a steel building, 75 x 260 ft., to be used as an erecting shop.

RAVENNA, OHIO.—The Ravenna Furnace & Heating Co., Ravenna, recently organized, has secured a site and will begin the erection of a foundry, 80 x 100 ft., at once. Part of the equipment for the new plant has already been provided, but some additional machinery will be purchased. The company manufactures the Ravenna cast-iron hot air furnace.

ELMWOOD, OHIO.—The Elmwood Casting Co. will erect a foundry here soon. The company has a capital of $100,000. James Stacey, of the Stacey Mfg. Co., is Pres.

CANTON, OHIO.—THE AMSLER ENGINEERING CO., Pittsburg, Diamond Bank Bldg., has secured a contract from the Shull Steel Casting & Mfg. Co., Canton, Ohio, for the building of a 10-ton open hearth furnace, annealing furnace and core ovens. The company has received an order from the Bellaire Bottle Co., Bellaire, Ohio, for a back port tank and flue work.

INDIANAPOLIS, IND.—The Diamond Chain & Mfg. Co., 241 West Georgia St., Indianapolis, Ind., will erect a 4-story building at a cost of $30,000 at Senate Ave. and Georgia St. This building is to be used for manufacturing power transmission chains.

MARION, IND.—JOHNSON & SON, of Marion, have been awarded the contract for the construction of the buildings to be occupied by the new tomato and catsup factory of the Snider Preserve Co. The work on the buildings, which will be of brick, will commence at once. The contract provides that the buildings be made ready for occupancy within 45 days. The new factory will be on the site of the old pulp mill, which was destroyed by fire a few years ago. Two of the mill buildings which were not entirely destroyed by the fire will be remodeled and rebuilt for the new factory. One of these buildings is 244 x 45 ft., and the second is 160 x 48 ft. An entirely new building will be 78 x 38 ft. Contract price, $12,300.

DECATUR, IND.—The Decatur Foundry Co., Decatur, recently incorporated with a capital of $30,000, will begin the construction of four new buildings within the next few weeks. Contracts for the steel structural work have been let to the INDIANA BRIDGE CO. The main foundry building will be 60 x 220 ft., and the building for core, pattern and finishing room will be 36 x 140 ft. The product of the plant will be gray iron castings of light and middle weight, also castings of brass and aluminum.

DETROIT, MICH.—John Scott & Co., Archs., 518 Moffatt Bldg., have awarded general contract to RICKMAN & SONS, Kalamazoo, Mich., for four buildings, on West Jefferson Ave., Detroit, for the Detroit Sulphite Pulp & Paper Co., James H. Cullen, Secy., Sulphite Ave. There will be a storehouse, with shops, 191 x 42 ft.; machinery building, 81 x 107 ft.; warehouse, 226 x 90 ft., and finishing house, 100 x 110 ft., to be two stories, of brick and mill construction, with composition roofs. Cost, $120,000.

CHICAGO, ILL.—F. E. Gatterdam, 163 Randolph St., is taking figures on a brewery to be built at the corner of 22d St. and Spalding Ave. for the New Brewery. It will consist of a 5-story brew house, 42 x 46 ft., of slow-burning construction, with reinforced concrete floors and concrete foundation; a 5-story cellar, 44 x 120 ft., of similar construction; a 2-story office and flat building, a 2-story stable, to accommodate 20 horses; wagon sheds, and an electric light and power plant. The buildings will have stock brick exteriors, with pressed brick trimmings, composition roofs, and the plant will have the latest improvements and appliances. It will have a capacity of 80,000 bbls., and will cost $160,000.

ST. CHARLES, ILL.—The Crown Electrical Mfg. Co., manufacturers of gas, electrical and combination chandeliers, is planning erecting a plant to cost about $25,000.

STREATOR, ILL.—The Crawford Locomotive & Car Works propose constructing a smith shop, 80 x 150 ft., and an erecting shop, 125 x 600 ft. R. W. Crawford is Arch. and Engr., Streator.

MILWAUKEE, WIS.—A. C. Eschweiler, Arch., 141 Wisconsin St., has been engaged to prepare plans for the proposed plant of the Manufacturers' Foundry Co., to be erected at a cost of $250,000 on 15th Ave., near the southern city limits. Fred Devere, Devere & Schloegel Lumber Co., is Pres.

MILWAUKEE, WIS.—We are officially advised that the Milwaukee Refrigerator Transit Co. will at once commence the erection of a new car plant, consisting of erecting shop, 100 x 200 ft., and will have a capacity of twelve cars per day. The wood mill and blacksmith shop and machine shop will be in proportion to the erecting shop and will be fully equipped with the latest improved machinery. Plans have been completed, but no contracts have been let. T. F. Howe is Gen. Mgr., Pabst Bldg.

The C. B. Henschel Mfg. Co. will erect a $25,000 factory on Mineral St., between Hanover and Reeds Sts. The building will be four stories high, 74 x 83 ft.

MITCHELL, IOWA.—Benson & Benson, of Hicksville, Ohio, contemplate erecting a factory at Mitchell to cost $30,000.

DULUTH, MINN.—The Clyde Iron Works Co. has submitted the plans for its big new plant, to be erected near the ore docks, to the Building Inspector for his approval and the permit probably will be taken out at once. The plans provide for a plant consisting of eight buildings, a foundry, machine shop, warehouse, pattern shop, cleaning shop, blacksmith shop, tool house and log loader shop, and the buildings will extend over nearly two blocks, from 29th to 31st Aves., west, between Michigan and Huron Sts. The foundry is to be the largest of the buildings, measuring 90 x 180 ft. and one story high, with provision for a traveling crane with a 40-ft. span running down the middle of the building. The machine shop will be a 2½-story building, 90 x 140 ft., located on the eastern portion of the property, and the warehouse, which is of extra heavy construction on account of the great weight of machinery which it is expected to contain, will be two stories high and 70 x 90 ft. The pattern shop, to be located at the corner of 29th Ave., west, and Huron St. will be two stories high and 90 x 90 ft. square. The blacksmith shop will be 1-story, 50 x 200 ft., and the plans provide for a most complete equipment in this department. The toolhouse is to be a 3-story structure, 50 x 80 ft., and the shop, where the log loaders are to be manufactured, will be one story high and 80 x 160 ft. in size. All the building will be thoroughly fireproof.

MINNEAPOLIS, MINN.—The Pillsbury-Washburn Co. will establish a plant on Hennepin Island for manufacturing nitrogen. The plant will cost, including the dam and power station, about $1,000,000.

The Otto Gas Engine Works, 360 Dearborn St., Chicago, Ill., is planning the erection of a gasoline engine plant to cost $150,000 in South Minneapolis.

The Spencer-Kellogg Co. will erect a 2-story brick linseed oil mill and engine house at 25th Ave. S. E. and Marshall Ave., to cost about $70,000.

ST. JOSEPH, MO.—The Missouri Portland Cement Co. will erect a plant of 800 bbls. capacity a day. In connection a 1,250-HP. power plant will be constructed. Estimated cost, $300,000.

HARRISONVILLE, MO.—The Improved Scale & Foundry Co., Harrisonville, Mo., is preparing to erect a new plant. J. W. Colburn, Jr., is Pres., and F. H. Howard, Secy.

ST. LOUIS, MO.—Plans are now being prepared by W. A. Cann, Arch., Missouri Trust Bldg., for the McKinney Bread Co.'s new building at Euclid Ave. and the Wabash R. R. tracks. The building will front on Euclid Ave. and cover the entire lot, 160 x 294 ft. It will be three stories high, of brick and stone, and fireproof construction, faced with ornamental terra-cotta on Euclid Ave. A double set of stairs will lead from the street to the first floor. The interior is to be finished throughout with white enamel brick. The basement will be unusually deep, to permit of switch to be run in from the Wabash R. R. tracks. The bake ovens will be installed in a 1-story structure in the rear of the main building, while the western end of the lot will be occupied by the stables. The improvements will cost about $150,000, and will be ready for occupancy in the early fall. The address of the McKinney Bread Co. is at Jefferson Ave. and Carr St.

HELENA, ARK.—The Helena Woodenware Co., recently incorporated, will erect the following buildings: Saw and stave mill, drykilns, power-house and pail factory. Cost of buildings and equipment, $10,000 and $40,000. The company will produce packing pails and tubs. The officers are J. H. Baskette, Pres. and Treas.; A. W. McKnight, Vice-Pres.; R. B. Douglass, Secy.

COLORADO SPRINGS, COLO.—Van Briggle Pottery Co. will erect an addition on the corner of Glenn Ave. and Wintah St., at a cost of $25,000. It will be one story high and will cover 12,000 sq. ft. of ground. N. Van Den Arend is Arch. C. S. Pastorius, Secy., and Mrs. A. G. Van Briggle, Pres.

THREE RIVERS, QUE.—The Wabasso Cotton Mills Co., recently organized with a capital of $1,500,000, will erect a plant at Three Rivers. The city has given a bonus of $75,000 on condition the plant does not cost less than $1,000,000.

MONTREAL, QUE.—The contract for constructing several buildings required for the Mount Royal Spinning Co., Ltd., at Cote St. Paul, has been awarded to D. G. LOOMIS & SONS, 232 McGill St., Montreal, and operations will be started on these structures immediately. There will be main building, boiler and store houses, office and finishing works, all of which will be constructed of brick with concrete foundations. The series of buildings will be of standard mill construction, throughout, and will be put up under the supervision of C. R. Makepace, of Providence, R. I., who will work conjointly with Finley & Spence, Archs., Guardian Bldg., Montreal.

WELLAND, ONT.—The Robertson Machinery Co., Welland, will replace the buildings recently destroyed by fire with a machine shop and foundry, 60 x 150 ft., and storehouse, 40 x 150 ft., the former to be of reinforced concrete and the latter of galvanized iron.

TORONTO, ONT.—The John Inglis Co. intends erecting three buildings this summer at a cost of $100,000. The buildings consist of a 1-story machine shop, 100 x 225 ft.; blacksmith shop, and a 3-story storage building, 42 x 100 ft., for patterns.

MEDICINE HAT, ALTA.—The Western Canneries, Ltd., with head office at Aikins Bldg., Winnipeg, Man., has decided to erect a large plant here. The capital of the company is $1,000,000.

ALAMEDA, SASK.—It is reported that the Prairie Milling Co., of Alameda, will erect a grist mill to cost about $50,000.

VANCOUVER, B. C.—The Golden West Soap Co. has purchased a site on Burrard Inlet upon which to erect a soap factory at a cost of $150,000. Plans have not yet been prepared. P. Burns & Co. are interested.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

GRADING.—Monroe, La.—See under Railways—"Louisiana."

SCOWS.—New York, N. Y.—Bids are asked by M. Craven, Comr. Street Cleaning, until noon, June 5, for construction of seven scows.

RIPRAP SEAWALL.—Winthrop, Mass.—Bids are asked by Maj. Edw. Burr, Corps of Engrs., U. S. A., Boston, until June 15 for building riprap seawall at Fort Heath, Winthrop.

STEEL TUG.—Duluth, Minn.—Bids are asked by Maj. Graham D. Fitch, Corps Engrs., U. S. A., until June 15 for building a steel tug complete. (Advertised, Engineering News.)

STONE.—Portland, Ore.—Bids are asked until 11 a. m., June 17, for about 1,200,000 tons of stone. Lieut.-Col. S. W. Roessler, Corps of Engrs., U. S. A. (Advertised, Engineering News.)

PONTOONS.—Cincinnati, Ohio.—Bids are asked by Lieut.-Col. Wm. T. Rossell, Corps Engrs., U. S. A., until June 14 for the construction of ten pontoons. (Advertised, Engineering News.)

TELEPHONE SUPPLIES.—New Wilmington, Pa.—R. J. Totten, of Volant, Pa., is in the market for telephone supplies for several miles of new telephone line near New Wilmington, Pa.

LEVEE.—New Orleans, La.—Bids are asked until June 8 by Capt. J. F. McIndoe, Corps of Engrs., U. S. A., for constructing about 457,000 cu. yds. levee work in the Lower Tensas Levee District.

BULKHEADS.—San Jose, Cal.—Bids are asked until June 4 for the construction of concrete bulkheads over Los Gatos Creek at Park Ave. Approximate cost, $6,000. J. G. McMillan, County Surv.

CANAL.—Peterboro, Ont.—Bids are asked until 4 p. m., May 29, for construction of Section 2, Holland River Division of the Trent Canal. Alex. J. Grant, Supt.-Engr., Trent Canal, Peterboro.

COAL BUNKERS.—Philadelphia, Pa.—Bids are asked until 3 p. m., June 15, by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., for construction of new coal bunkers at U. S. Mint.

DREDGING.—San Diego, Cal.—Bids are asked by Capt. Amos A. Fries, Corps of Engrs., U. S. A., 537 Citizens' National Bank, Los Angeles, until 11 a. m., June 12, for dredging at San Diego Harbor, Cal.

DIKES, WALLS.—Savannah, Ga.—Bids are asked by Lieut.-Col. Dan C. Kingman, Corps Engrs., U. S. A., until June 18 for raising and repairing dikes and training walls in Savannah Harbor. (Advertised, Engineering News.)

SCALES.—Scottdale, Pa.—Bids are asked until 8 p. m., May 29, for a set of new scales; platform 16 ft. long, with beam 15 ft. long, extending into the Borough Building, erected complete. A. L. Porter is Secy. Boro. Council.

LOCK-GATE.—Pittsburg, Pa.—Bids are asked until June 12 by Maj. H. C. Newcomer, Corps of Engrs., U. S. A., for removing a steel lock-gate and erecting in its place a new steel lock-gate of greater height at Lock No. 6, Ohio River.

TRESTLE, ROCK WORK.—Portland, Ore. —Bids are asked by Lieut.-Col. S. W. Roessler, Corps Engrs., U. S. A., until June 5 for lumber and pile trestle and rock work. Plans, specifications and bidding sheet are on file at office of Engineering News, New York.

DREDGING.—New York, N. Y.—Bids are asked until noon, June 19, by Col. D. W. Lockwood, Corps Engrs., U. S. A., Army Bldg., New York, for dredging in Huntington and Peekskill Harbors and East Chester Creek, N. Y. (Advertised, Engineering News.)

TUNNEL.—Chattanooga, Tenn.—Bids are asked until noon, June 15, for the construction of a highway tunnel, about 700 ft. long, under Mission Ridge, near Chattanooga. W. L. Dodds, County Engr. A. J. Gahagan, Chn. Tunnel Comn. (Advertised, Engineering News.)

JETTY.—Portland, Ore.—Bids are asked by Lieut.-Col. S. W. Roessler, Corps of Engrs., U. S. A., until 11 a. m., June 17, for furnishing stone for jetty construction, mouth of Columbia River. Specifications and bidding sheet are on file at office of Engineering News, New York.

LOCK-GATES, ETC.—Nashville, Tenn.—Bids are asked by Lieut. W. G. Caples, Corps Engrs., U. S. A., until June 15 for construction, delivery and erection of two steel lock-gates, filling valves, etc., for each of five locks on Cumberland River. (Advertised, Engineering News.)

VACUUM PLANT.—New York, N. Y.—Bids are asked by John W. Brannan, Pres. Bd. Trustees, Bellevue and Allied Hospitals, until 3 p. m., May 29, for a vacum dust sweeping and cleaning plant, in Pavilions A and B of the New Bellevue Hospital, on First Ave., 26th and 29th Sts., Boro. of Manhattan.

COAL-HOISTING TOWER.—Tiburon, Cal. —Bids are asked by the Bureau of Equipment, Navy Dept., Washington, D. C., until 11 a. m., June 5, for furnishing and erecting complete a coal-hoisting tower at the U. S. Naval Coal Depot, California City Point, Cal. (Advertised, Engineering News.)

DREDGING.—Chicago, Ill.—Bids are asked until 11 a. m., May 29, at Room 224, City Hall, for dredging approximately 17,000 cu. yds. of material from the bottom of that part of the west arm of the south branch Chicago River which lies 700 ft. next north from 39th St. John J. Hanberg, Comr. of Pub. Works.

PIER.—Charlottetown, P. E. I.—Contract for the new railway pier has been let to REID & ARCHIBALD, Halifax, N. S. The sum involved is about $150,000. The contract calls for the dredging and widening of the present structure 126 ft., and extending it 68½ ft. The material is to be reinforced concrete.

LIGHT VESSELS.—Washington, D. C.—Bids are asked until 2 p. m., June 12, by the Lighthouse Board, Washington, D. C., for the construction and delivery of four first class single screw steel steam light vessels, one or more to be delivered either at Tompkinsville, N. Y.; Yerba Buena, Cal.; Astoria, Oregon, or Seattle, Wash.

WHARF.—San Luis Obispo, Cal.—The Board of Supervisors has awarded contract to the ATLANTIC GULF & PACIFIC CO., Park Row Bldg., New York, N. Y., at $36,997, for constructing a public wharf at Avila. This bid excludes gum piles. C. B. Greenwell, Ventura, Cal., is Des. Engr.; H. H. Carpenter, San Luis Obispo, is County Clerk. Bids were received May 8.

RIPRAP EMBANKMENT.—New York, N. Y.—Bids were received as follows by J. A. Bensel, Comr. of Docks, on May 21, for preparing for and building an embankment of riprap under the ferry structures at St. George, S. I., Boro. Richmond: O'Brien Bros., 54 South St., 97 cts. per cu. yd.; J. F. Quinn, city, 89 cts.; Boucker Contracting Co., 21 State St., $1.22.

WHARF.—New Orleans, La.—Bids were received on May 14 by the Board of Commissioners, Port of New Orleans, Hugh McCloskey, Pres., for constructing the St. Andrew St. Wharf. A. C. Bell, Engr., 506 Hibernia Bank Bldg. Contract was awarded to W. T. CAREY & BRO., at 5¾ cts. per lin. ft. driving piling, and $8.75 per M ft. B. M. planing lumber. Cost, $20,392.

EXCAVATION.—Boston, Mass.—Bids for about 15,000 cu. yds. rock excavation in Boston Harbor, Mass., were received by Maj. Edward Burr, Corps Engrs., U. S. A., Boston, on May 8 as follows: Metropolitan Contracting Co., Boston, Mass., $22.25, per cu. yd.; P. Sanford Ross, Ins., Jersey City, N. J., $24; G. H. Breymann & Bros., Toledo, Ohio, $22.95; Johnston & Virden, Lewes, Del., $22.30.

FENCE.—Prescott, Ariz.—Bids were received as follows on May 10 by Capt. Chas. C. Walcott, Jr., Const. Q. M., for construction of a post fence at Whipple Barracks: Nowell Bros., 218 West First St., Los Angeles, Cal., labor, $3,630; material, $3,630; labor and material, $7,260. Monad Engineering Co., 147 Cedar St., New York City, labor and material, $6,796; Indestructible Post Co., Paw Paw, Mich., posts, $1,433.

VENTILATING EQUIPMENT.—New York, N. Y.—Bids were received as follows by James W. Stevenson, Comr. of Bridges, on May 16, for installing the ventilating system and the electrical equipment for the Manhattan subway station of the Williamsburg (New East River) Bridge over the East River, between the Boroughs of Manhattan and Brooklyn: Snare & Triest Co., 143 Liberty St., $52,270; Watson-Flagg Engineering Co., 27 Thames St., $56,800.

REPAIRING FERRYBOATS.—New York, N. Y.—Bids were received as follows on May 21, by J. A. Bensel, Comr. of Docks, for repairing the municipal ferryboats or other floating property of the department, and furnishing and delivering miscellaneous supplies therefor: James Reilly Repair & Supply Co., 227 West St., $141,135; Alex. Miller & Bro., Jersey City, N. J., $156,803; Monad Engineering Co., 147 Cedar St., $140,689; James Shewan & Son, foot of Houston St.; East River, $139,705.

PILES.—New York, N. Y.—Bids were received on May 20 by the Department of Docks as follows for furnishing and delivering piles: Class 1, on or before expiration of 180 calendar days; class 2, on or before expiration of 90 calendar days. J. H. Burton, 18 Broadway, (class 1) $11.09, (2) $9.82; Chas. K. Nichols, 74 Cortland, (1) $11.24, (2) $10.24; Stanley H. Miner, 11 Broadway, (1) $11.24, (2) $11; Empire Timber Co., 39 Cortland St., (1) $11.95, (2) $11.95; G. E. Richardson, 123 Liberty St., (2) $11.65.

DREDGING.—Duluth, Minn.—Bids were received as follows by Major Graham D. Fitch, Corps of Engrs., U. S. A., on May 6 for dredging at Ontonagon, Mich., Port Wing and Ashland, Wis.: (item 1) 18,000 yds at Ontonagon, per yd.; (2) 92,000 yds. at Ashland, per yd.; (3) 14,000 yds. at Port Wing, per yd.; (4) total: Northern Dredge Co., Duluth, Minn., (item 1) 13½c; (2) 17½c; (3) 12½c; (4) $20,280. ZENITH DREDGE CO., Duluth, Minn., (awarded contract) (1) 17¾c; (2) 14¾c; (3) 17¾c; (4) $19,250.

SEAWALL.—San Francisco, Cal.—The Seawall Commission, consisting of Gov. Jas. N. Gillett, Mayor Eugene E. Schmitz and Harbor Commissioners W. V. Stafford, H. J. Crocker and W. E. Dennison, have adopted plans and specifications for the construction of Section 12 of the seawall. The new seawall will start at pier 42 and cut through the old Mail dock and the little Mail dock as far as Fremont St. It is estimated that 150,000 tons of stone, of 2,240 lbs. to the ton, will be used in its construction. Bids for the construction of this section are asked until 2.15 p. m., June 13, by the Board of Harbor Commissioners. Lott D. Norton, Ch. Engr., Bd. State Harbor Comrs.

MISCELLANEOUS SUPPLIES.—New York, N. Y.—Bids were received by the Department of Docks on May 20 for miscellaneous supplies as follows: Class 1, iron, steel, etc.; class 2, pipe and fittings, valves, etc.; class 3, lumber; class 4, machinery and pump parts; class 5, miscellaneous; class 6, hardware. The low bidder on all classes except Class 3 was J. Edward Ogden, 147 Cedar St., as follows: 1, $34,710; 2, $14,002; 4, $7,899; 5, $37,798; 6, $6,739. The Dowd Lumber Co., 286 Ave. A, was low bidder on Class 3, at $10,776.

TUNNEL, TERMINAL.—Long Island City, N. Y.—Contracts for the only section of the Pennsylvania Railroad tunnels not already begun have been let. They are for building the eastern portals and approaches, where the trains will come out of the ground in Long Island City, and a short stretch of cut and cover tunnel just west of the portals. The new contracts, known as sections A and B, were awarded to NAUGHTON & CO., 299 Broadway, New York, and ARTHUR McMULLAN, 13 Park Row, New York. The work will be done as a part of the East River division, under the direction of Chief Engineer Alfred Noble. The contracts cover the distance between Thompson Ave., Long Island City, and the contract of S. Pearson & Son, at East Ave.

SUBWAY.—New York, N. Y.—Bids are asked until noon, June 13, by the Board of Rapid Transit R. R. Commissioners for building a certain rapid transit railroad, known as Route No. 9, in Delancey St. (Manhattan) and other streets in the Boroughs of Manhattan and Brooklyn, including ultimately Centre St., Grand St., Desbrosses St., Canal St. and William St., in Manhattan, and Fulton St., Lafayette Ave. and Broadway in Brooklyn. Bids are now asked only for that part of said railroad which is situated in Delancey St., between the Bowery and Norfolk St.

Bids are also asked at the same time for the section from Pearl St. to Park Row. Also for the section on Centre St., from Canal St. to Broome St. Bion L. Burrows, Secy.

DUMP SCOWS.—Cincinnati, Ohio.—Bids were received May 15 by Maj. J. G. Warren, Corps Engrs., U. S. A., Engineer Office, Custom House, Cincinnati, for constructing two dump scows, as follows: (a) long-leaf yellow pine; (b) red Oregon fir: J. M. Hammitt, Marietta, Ohio, (b) $5,025, 60 days; Howard Ship Yards Co., Jeffersonville, Ind., (a) $5,256, (b) $5,836, on or before Nov. 1; The Monongahela River Consolidated Coal & Coke Co., 8 Market St., Pittsburg, Pa., (a) $3,108, 75 days (delivery subject to water in the Ohio River at Pittsburg upon which to ship when scows are completed).

VESSEL.—Washington, D. C.—Bids are asked until June 11 by the Revenue Cutter Service for constructing an ocean-going tug, Revenue Cutter No. 17. The Revenue Cutter Service rejected the bids recently received for the con-truction of Revenue Cutter No. 17 as being $75,000 above the appropriation.

SUBWAY.—Washington, D. C.—Bids were opened May 15 at the office of the Superintendent of the United States Capitol Grounds and Buildings, Washington, D. C., for the construction of a subway to connect the Capitol and the two new office buildings for the Senate and the House of Representatives respectively; (A), brick subway construction, (B), concrete: Jas. Stewart & Co., 135 Broadway, New York, (A), $140,750; (B), $169,800. Henry Smith & Sons Co., 109 Howard St., Baltimore, (A), $174,800; (B), $198,200. Cranford Paving Co., 26th and E Sts., N. W., Washington, (B), $166,600. New York Continental Jewell Filtration Co., 15 Broad St., New York, (B), $237,900. Hoffman Engineering & Contracting Co., Pennsylvania Bldg., Philadelphia, (A), $144,825; (B), $182,194. Rinehart & Dennis Co., Colorado Bldg., Washington, (A), $212,000; (B), $218,000. Brennan Construction Co., 3056 K St., N. W., Washington, (A), $134,800; (B), $175,300. Rudolf S. Blome Co., 79 Dearborn St., Chicago, (B), $164,800. Baltimore Ferro-Concrete Co., Baltimore, on bidders' specifications, $188,400.

U. S. POSSESSIONS AND CUBA.

HOISTING ENGINES.—Panama.—Requisitions have been received by the Isthmian Canal Commission, Washington, D. C., calling for six hoisting engines, 20 HP. Specifications are being prepared, and will be issued shortly.

STEAM SHOVELS.—Panama.—David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., has awarded to the BUCYRUS CO., South Milwaukee, Wis., contract for furnishing seven type "C" steam shovels, not less than 40 nor more than 50 tons in weight, at its bid of $49,000. Bids opened the same day for 15 type "B" shovels have been cancelled.

TIES.—Panama.—Requisitions have been received from the Isthmus by the Isthmian Canal Commission, Washington, D. C., calling for 150,000 railroad cross ties, 7-in. × 9-in. × 9-ft.; 200 sets No. 7 switch ties, 7 × 9-in., various lengths, and 75 sets No. 9 switch ties, 7 × 9-in. These ties are to be either long leaf yellow pine or California redwood. Specifications are being prepared, and will be issued shortly.

STEEL RAILS.—Panama.—Bids were opened May 20 at the office of the Isthmian Canal Comn., Washington, D. C., for (A), 5,000 gross tons 70-lb. steel rails, (B), 30,000 splice bars, (C), 295,000 tie plates. Beaver Dam Malleable Iron Co., Beaver Dam, Wis., (C), $36,757, 150 days. R. C. Hoffman & Co., Baltimore, (A), $158,750, (B), $10,734, no time stated. U. S. Steel Products Exports Co., 24 State St., New York, (A), $162,250, (B), $12,882, 150 days; (C), $24,259, 100 days.

STEEL RAILS.—Panama.—David W. Ross, Gen. Purchasing Officer of the Isthmian Canal Comn., Washington, D. C., has awarded to R. C. HOFFMAN & CO., Continental Trust Bldg., Baltimore, agent for the Maryland Steel Co., contract for furnishing 5,000 gross tons of steel rails at $158,750, and for furnishing 30,000 splice bars at $10,734; also to the UNITED STATES STEEL PRODUCTS EXPORTS CO., 24 State St., New York, contract for furnishing 295,000 tie plates at $24,259.

ENGINEERING SUPPLIES. — Panama.—Bids are asked until 10.30 a. m., May 28, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for a quantity of engineering supplies, as follows: One double spindle centering machine, 6 ins.; one horizontal drilling machine, one bar cutter, 350 sheets No. 10 soft steel plate, valves; 8,000 ft. 6-in. standard vitrified sewer pipe, with Y's and bends; plumbing fixtures, fire hydrants, jackscrews, maple rollers, and a quantity of household fittings.

ENGINEERING SUPPLIES. — Panama.—Bids are asked until 10.30 a. m., June 4, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for a quantity of machinery and engineering supplies, as follows: Three screw-cutting engine lathes, one Universal milling machine, one upright sliding-head drill press, one parallel driven planer, one 22-in. slotting machine, one 20-in. traveling head-shaping machine, six dipper lips, cone-head rivets, air hose, packing, galvanized iron pipe fittings, two tool chests, stove pipe, 40,000 lbs. asbestos cement, cotton waste, lumber as follows: 1,300 caps, 13,000 braces, 3,900 stringers, in al labout 1,700,000 ft. B. M.

LUMBER.—Panama.—Bids were opened May 20 at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for 5,000 piles, lengths 25 ft. to 60 ft. Bids were (A), on printed specifications, (B), on altered specifications sent out by Commission: A. S. Bacon & Sons, 4 Bay St., West, Savannah Ga., (B), $44,558, 100 days. J. H. Burton & Co., 48 Broadway, New York, (A), $47,400, (B), $48,645, 100 days. Continental Lumber Co., Binz Bldg., Houston, Tex., (A), $69,125, 150 days. G. Elias & Bro., Buffalo, N. Y., (B), $53,100, 150 days. D. L. Gillespie & Co., 541 Wood St., Pittsburg, (B), $43,050, 120 days. Guy T. Gillespie, Scranton, Miss., (A), $40,750, (B), $42,600, 200 days. Wm. D. Gill & Son, 701 President St., Baltimore, (A), $49,558, 180 days. L. M. Gex, Hancock and Front Sts., Bay St. Louis, Miss., (A), $41,637, 100 days. George R. Johnson, American Bldg., Baltimore, (B), $47,400, 150 days. J. J. McCaskill Co., Freeport, Fla., (A), $48,750, (B), $50,290, 150 days. Salmon Brick & Lumber Co., Ltd., 716 Common St., New Orleans, (A), $43,260, (B), $44,730, 59 days. Robert R. Sizer & Co., 4 East Bay St., Jacksonville, Fla., (A), $42,537, 90 days. Barney & Hines, Tennessee Bldg., Memphis, Tenn., (A), $71,414, 50 days.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*CANAL AND STRUCTURES. — Belle Fourche, S. Dak.—Bids were received as follows by the United States Reclamation Service on April 10, for constructing Sections 2 to 8 of the South Canal with appurtenant structures, in connection with the Belle Fourche Project, South Dakota. The bidders were: (A) The S. R. H. Robinson & Son Contracting Co., 1609 Chemical Bldg., St. Louis, Mo; (B) W. D. Lovell, 1415 Eighth St. S. E., Minneapolis, Minn.; (C) J. E. Hilton, Belle Fourche, S. Dak.:

Schedule 2:

Excavation for structures:	Quantity.	(A)
Class A	4,000 cu. yds.	$1.00
Class B	300 cu. yds.	1.00
Class C	100 cu. yds.	1.00
Miscellaneous grading	1,000 cu. yds.	1.00
Stripping gravel pits	5,000 cu. yds.	.28
Screened gravel	100 cu. yds.	5.00
Back filling	500 cu. yds.	2.00
Concrete	1,600 cu. yds.	22.00
Placing steel and iron work	5,000 lbs.	.015
Hauling, storing and caring for cement	2,000 bbls.	2.00
Laying 24″ vit. pipe	100 ft.	2.00
Wooden stringer bridges, superstructures only:		
Six 40′ spans	....	390.00
Five 36′ spans	....	350.00
Total		$51,865

Schedule 1, Section 2: Canal excavation:

	Quantity.	(A)
Class A	70,000 cu. yds.	$0.30
Class B	2,000 cu. yds.	.30
Class C	300 cu. yds.	.30
Overhaul	10,000 cu. yds.	.02
Excavation for siphon and appurtenances and one culvert:		
Dry, Class A	7,000 cu. yds.	1.85
Dry, Class B	500 cu. yds.	1.85
Dry, Class C	100 cu. yds.	1.85
Wet, Class A	300 cu. yds.	4.00
Wet, Class B	2,000 cu. yds.	4.00
Wet, Class C	100 cu. yds.	4.00
Belle Fourche River crossing		....
Stripping gravel pit	5,000 cu. yds.	.28
Screened gravel	20 cu. yds.	5.00
Placing steel and iron work	285,000 lbs.	.015
Hauling, storing and caring for cement	3,500 bbls.	1.50
Concrete	2,500 cu. yds.	16.50
Lumber in platforms and drains	10,000 ft. B.M.	70.00
Total		$103,895

Schedule 1, Section 4:

	Quantity.	(A)
Canal excavation:		
Class A	120,000 cu. yds.	$0.32
Class B	15,000 cu. yds.	.32
Class C	2,000 cu. yds.	.32
Overhaul	50,000 cu. yds.	.02
Total		$44,840

Schedule 1, Section 5:

	Quantity.	(A)	(B)*
Canal excavation, Class A	90,000 cu. yds.	$0.32	$0.31
Canal excavation, Class B	10,000 cu. yds.	.32	.80
Canal excavation, Class C	1,000 cu. yds.	.32	4.50
Overhaul	20,000 cu. yds.	.02	.02
Total		$32,700	$40,800

Schedule 1, Section 6:

	Quantity.	(A)		(C)†
Canal excavation, Class A	100,000 cu. yds.	$0.29	[illegible]	$0.165
Canal excavation, Class B	3,000 cu. yds.	.29	[illegible]	.30
Canal excavation, Class C	500 cu. yds.	.29	[illegible]	1.00
Overhaul	20,000 cu. yds.	.02	[illegible]	.02
Total		$30,415	$3[illegible]	$18,300

Schedule 1, Section 7:

	Quantity.	(A)		(C)
Canal excavation, Class A	100,000 cu. yds.	$0.29	[illegible]	$0.17
Canal excavation, Class B	3,000 cu. yds.	.29	[illegible]	.40
Canal excavation, Class C	500 cu. yds.	.29	[illegible]	1.00
Overhaul	25,000 cu. yds.	.02	[illegible]	.02
Total		$30,515	$3[illegible]	$19,200

Schedule 1, Section 8:

	Quantity.	(A)		(C)
Canal excavation, Class A	120,000 cu. yds.	$0.29	[illegible]	$0.19
Canal excavation, Class B	5,000 cu. yds.	.29	[illegible]	.40
Canal excavation, Class C	1,000 cu. yds.	.29	[illegible]	1.00
Overhaul	50,000 cu. yds.	.02	[illegible]	.02
Total		$37,540	$46[illegible]	$26,800

*Was informal, as he did not give guarantee of bond.
†Was informal, as he did not sign the same.

Schedule 1, Section 3:

Canal excavation:	Quantity.	(A)
Class A	200,000 cu. yds.	$0.39
Class B	25,000 cu. yds.	.39
Class C	1,500 cu. yds.	.39
Overhaul	100,000 cu. yds.	.02
Excavation for siphon & appurtenances:		
Dry, Class A	3,000 cu. yds.	2.00
Dry, Class B	300 cu. yds.	2.00
Dry, Class C	100 cu. yds.	2.00
Wet, Class A	650 cu. yds.	4.00
Wet, Class B	300 cu. yds.	4.00
Wet, Class C	100 cu. yds.	4.00
Excavation for structures:		
Class A	500 cu. yds.	1.50
Class B	300 cu. yds.	1.50
Whitewood Creek crossing		....
Stripping gravel pits	5,000 cu. yds.	.28
Screened gravel	30 cu. yds.	5.00

Placing steel and iron work	65,000 lbs.	.015
Hauling, storing and caring for cement	3,800 bbls.	1.50
Lumber in platforms and drains	10,000 ft. B. M.	70.00
Concrete, siphon and appurtenances:		
Class A	1,000 cu. yds.	19.50
Class B	200 cu. yds.	22.00
Class C	120 cu. yds.	22.00
Class D	1,700 cu. yds.	22.00
Excavation for tunnel	6,000 cu. yds.	8.00
Additional trimming	200 cu. yds.	5.00
Timbering in tunnel	100,000 ft. B. M.	75.00
Tunnel drainage	400 lin. ft.	.50
Dry Packing in tunnel:		
Type A	595 lin. ft.	2.50
Type B	700 lin. ft.	5.00
Total		$240,087

*SANITARY SEWERS.—Rushville, Ind.—Bids were received as follows by the Common Council on April 23 for constructing about 11¼ miles of sanitary pipe sewers, from 6 to 24-in., with necessary manholes, catch basins, etc. S. G. Gregg is City Clk. Alonzo L. Stewart is City Engr. The bidders were: (A) Weiman & Vineyard, Evansville; (B) Wm. N. Vaughn, Greenfield; (C) Frankfort Construction Co., Frankfort; (D) Fred. H. Hoffman, Rochester; (E) Jas. T. Callahan, Jamestown, N. Y.; (F) JULIUS KELLHER CONSTRUCTION CO., Indianapolis (awarded contract):

	(A)	(B)	(C)	(D)	(E)	(F)
3,070 lin. ft. 24″ pipe	$1.35	$1.44	$1.60	$1.60	$1.37	$2.28
5,345 lin. ft. 18″ pipe	1.35	1.48	1.55	1.15	1.59	1.56
4,845 lin. ft. 15″ pipe	1.12	1.14	1.20	.98	1.18	1.16
830 lin. ft. 14″ pipe	1.12	1.14	1.10	.98	1.18	1.14
4,985 lin. ft. 12″ pipe	.80	.89	1.05	.87	.72	.83
12,000 lin. ft. 10″ pipe	.70	.76	.92	.77	.73	.66
21,700 lin. ft. 8″ pipe	.65	.68	.84	.67	.58	.44
6,900 lin. ft. 6″ pipe	.48	.60	.65	.50	.51½	.54
24 lin. ft. 24″ iron pipe	6.00	4.00	1.50	7.00	10.00	5.00
82 manholes, each	40.00	44.00	35.00	40.00	47.00	20.00
5 catch basins, each	50.00	58.00	65.00	27.00	55.00	20.00
12 lampholes, each	6.00	6.00	15.00	4.00	10.00	10.00
10 deep cut house connections, each	8.00	6.00	12.00	4.00	9.00	15.00
12 flush tanks, each	60.00	68.00	70.00	70.00	63.00	90.00
15 cu. yds. masonry	7.00	6.00	6.75	6.00	7.00	6.00
11 storm inlets, each	....	....	85.00	27.00	55.00	15.00
Totals	$52,172	$56,286	$64,318	$53,094	$53,911	$50,736

STORM WATER SEWER. — Winnetka, Ill.—Bids were received as follows on April 9 for building storm water sewer. Frank A. Windes, Engr. The bidders were: (A) A. C. Schrieter, Manitowoc, Wis.; (B) F. G. Mortimer, Glencoe, Ill.; (C) John Green, Chicago, Ill.; (D) Andrew Thomsen, Racine, Wis.; (E) Robt. Nelson, Racine, Wis.:

	(A)	(B)	(C)	(D)	(E)
8,875 ft. 10″ sewer, 7.0′ cut	$0.53	$0.55	$0.60	$0.73	$0.68
2,400 ft. 12″ sewer, 6.0′ cut	.58	.62	.65	.75	.74
700 ft. 15″ sewer, 8.3′ cut	.82	.75	.80	1.00	1.00
340 ft. 18″ sewer, 8.7′ cut	.94	.95	1.05	1.30	1.10
1,833 ft. 24″ sewer, 8.0′ cut	1.45	1.50	1.55	1.85	2.00
950 ft. 3′ × 4′ concrete sewer	3.54	3.00	3.70	*	5.00
1,320 ft. 3′ × 5′ concrete sewer	3.74	3.50	3.80	*	5.00
63 catch basins	26.00	35.00	30.00	35.00	32.50
43 manholes	25.00	35.00	30.00	35.00	27.00
520 6″ Y junctions	.50	.55	.50	.50	.25
80 6″ slants	.40	.50	.50	.50	.25
6 cu. yds. concrete	7.50	8.00	7.00	8.00	7.00
152 ft. of box culverts	1.90	2.50	2.00	1.00	3.40
440 ft. of open box drain	1.25	1.50	1.50	1.00	1.40
500 cu. yds. excavation	.30	.30	.25	.35	.40
Totals	$21,986	$22,711	$23,785	$26,173	$28,634

*Error in bid. Total correct.

CIVIL SERVICE EXAMINATIONS.

ELECTRICIAN.—Washington, D. C.—The U. S. Civil Service Commission announces the postponement to June 12, 1907, of the examination scheduled for May 29, to secure eligibles from which to make certification to fill two vacancies in the position of Electrician in the Quartermaster's Department at Large, one at Fort Slocum, N. Y., at $1,000 a year, and the other at Fort Thomas, Ky., at $900 a year, and vacancies as they may occur in any branch of the service requiring similar qualifications. The duties of the specific position to be filled require thorough knowledge of and experience in house wiring, installation of electric lighting fixtures, and construction of pole lines; ability to read and test watt meters and to care for and make slight repairs to transformers and arc lamps. Age limit 20 years. Application Form 1052.

ENGINEER.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on June 19, 1907, to secure eligibles from which to make certification to fill the following-named vacancies as the result of examination in Branch 1, Steam Engineering, and vacancies as they may occur in the Indian Service in the engineering positions indicated below: Engineer, qualified in acetylene and gasoline gas, $800 a year, Carson, Nev. For this position it is desired to secure an engineer who has had experience in the use of acetylene and gasoline gas, which experience must be shown in the application. Engineer, qualified in gasolene gas lighting system, $720 a year, Arapaho, Okla. For this position it is desired to secure an engineer who has had experience in the management of a gasolene gas lighting system, which experience must be shown in the application blank. As the Commission has experienced considerable difficulty in securing eligibles for the positions mentioned, examinations having been held on March 6 and April 17, 1907, qualified persons are urged to enter this examination. Owing to the widely varying conditions in the various schools and agencies of the Indian Service, general engineering examinations will be given under the following separate branches. An applicant may take one or more than one of these in his discretion. The prospects of appointment will be increased by successfully passing more than one of the branches indicated. Applicants

should fully indicate in their applications the particular branch or branches in which they desire to be examined, and should state as definitely as possible the experience they have had which would tend to qualify them in the branches selected. The ratings in each branch will be determined separately, and if more than one branch is taken the ratings will be combined into a general average with the relative weights indicated opposite each branch. Salaries, $480 to $1,000 a year. The majority of the appointments, however, are made at salaries of $720, $840 and $900 a year. Age limit, 20 years or over on the date of the examination. Application Form 1093.

LEVELERS.—Albany, N. Y.—The following persons have passed the Civil Service examination held on April 29, 1907, and are eligible for appointment as Levelers in the New York State service:

Otis F. Lewis, Fort Hunter.............87.47
Fred C. Koevner, 126 President St., Troy.............87.11
Gordon Edson, Caneadea, N. Y.........86.30
Daniel A. Young, 707 Nott St., Schenectady.............85.32
Ernest A. [illegible]hmen, 302 University Ave., Ithaca.............83.77
Charles A. Holmquist, Amsterdam......83.05
Walter C. Benedict, Whitehall..........82.47
William F. Hunt, 221 Main St., Jersey Shore, Pa.............82.28
John J. Huber, 111 Montgomery St., Poughkeepsie.............81.77
Rollo E. Miller, 21 Lincoln Ave., Cortland.............80.22
Joel M. Howard, 273 West 140th St., New York.............79.97
Elmer C. Lawton, Lawtons Station, N. Y.............78.89
Charles L. Pierce, 35 N. Converse Hall, Burlington, Vt.............79.16
Frank L. Bisbee, 155 Oak St., Binghamton.............78.69
Louis E. Robbe, 326 Lexington Ave., New York.............78.00
Albert L. Sayer, 14 Rennselaer Ave., Ogdensburgh.............75.06
Earl D. Wood, 44 Maple Ave., Cortland.75.03
LeVan R. Barnes, 41 Prince St., Rochester.............75.00
Dale C. Roberts, R. F. D. 4, Newburgh.75.52

ASSISTANT ENGINEER.—Albany, N. Y.—The following persons have passed the Civil Service examination held on April 29, 1907, and are eligible for appointment as Assistant Civil Engineers in the New York State service:

Charles D. Thomas, 547 Carlton Ave., Brooklyn.............94.31
Hall Gleason, Lyons, N. Y.............86.40
George A. Ensign, 18 Neuman St., Mechanicsville.............86.25
Thomas D. Ringwood, 1108 Press Bldg., Binghampton.............85.54
J. Seward Summers, 4 Girton Pl., Rochester.............84.77
Eugene C. Olcott, 110 Roberts Ave., Syracuse.............83.11
Wilson G. Harger, 31 Vick Park, Ave. B, Rochester.............83.04
Max W. Wolff, 184 Hamilton St., Albany.81.87
George H. Thomson, Park Row Bldg., New York.............81.16
George H. Haley, 62 Phillip St., Albany.81.12
Ernest P. Neuschwander, 106 Morris St., Yonkers.............80.79
Melvin D. Casler, Syracuse.............80.57
William H. Slingerland, Jr., 9 Fifth Ave., Saratoga.............79.50
Henry E. Blake, Wilton, Albany County.78.77
A. George Austin, Box 284, Fonda......76.39
Elvin J. Becker, 270 East Main St., Amsterdam.............76.07
Albert C. Richards, 407 Park Ave., Mechanicsville.............75.62
Charles F. Crowley, 114 Third St., Troy.75.04
Harold W. Benedict, 685 Fourth Ave., North Troy.............75.03
Elmer C. Lawton, Lawtons Station, N. Y.............75.02
George R. Halpin, 23 Fremont St., Bridgeport, Conn.............75.01
Richard V. Collins, Weighlock Bldg., Syracuse.............75.00
Oscar M. Severson, 222 N. Hyde Park Ave., Scranton, Pa.............91.18
Franklin F. Miller, 203 Meadow St., Tyrone, Pa.............78.30
John H. Quimby, 63 North 18th St., East Orange, N. J.............77.90
Frank C. Woodward, Hotel Thurston, Frankfort, N. Y.............75.05

INDUSTRIAL NOTES.

ROBERT W. HUNT & CO. advise us that their offices will be located at 90 West St., West Street Building, New York, on and after May 1, 1907.

GRIGGS & HOLBROOK, Consulting Engineers, have removed from 25 Broad St. to the New Seligman Building, 3 South William St., New York.

THE STANDARD RAILWAY EQUIPMENT CO., St. Louis, Mo., announces that its New York office has been removed from 122 Liberty St. to 90 West St.

The ATLAS DRYER CO., Cleveland, O., has received an order for one of its Atlas Coal Dryers, capacity for drying 300 tons of coal per day, from the Belleville Portland Cement Co., Ltd., Belleville, Ont.

THE BLAW COLLAPSIBLE STEEL CENTERING CO., Pittsburg, Pa., announces that it has opened an office in New York at the Park Row Building, room 320, telephone 5360 Cortlandt. The office will be under the management of Mr. Wm. B. Dixey.

PRICES OF ALL KINDS OF ENGINES are expected generally to advance very sharply, owing to preparations on the part of manufacturers to protect themselves in view of continued advances in the prices of raw materials—particularly pig iron—giving evidence that the higher values will rule for some time.

The B. F. STURTEVANT CO., of Boston, Mass., has just sold for export a starch drying apparatus, consisting of one of their steel plate exhaust fans and a steel pipe heater, through which the air is drawn and heated. From the fan it will be discharged through the specially constructed dry room in which the starch is exposed.

The PARKER BOILER CO., Philadelphia, Pa., advises that orders have recently been received from the following parties: Code Portwood Canning Co., Fruitvale, Cal.; Globe Laundry Co., Chicago, Ill., and Union Special Machine Co., Chicago, Ill. The order from the Code Portwood Canning Co. is a duplicate of one placed with the Parker Co. by this company about a year ago.

A. D. GRANGER CO. has changed its New York office to rooms 1518-19-20 West Street Building, 90 West St., where much larger and more commodious offices have been arranged for the better conduct of its business. The company still handles products of the Skinner Engine Co., of Erie; Oswego Boiler & Engine Co.; Harrisburg Mfg. & Boiler Co.; Union Iron Works, of Erie; Bates Machine Co., of Joliet; Frost Mfg. Co., of Galesburg, Ill.

THE GENERAL FIREPROOFING CO., of Youngstown, O., announces coincident with establishing a branch office at 82 Second St., San Francisco, the appointment of W. W. Thurston as District Manager. Another recent acquisition by the General Fireproofing Co. is W. E. Ramsey, Engineer, graduate of Illinois University and formerly Engineer with the Expanded Metal Fireproofing Co., at Chicago. Mr. Ramsey is at present with the home office at Youngstown.

J. H. WAGENHORST & CO., Youngstown, O., manufacturers of the Wagenhorst Electric Blue Printing Machines, announce a partial list of recent sales as follows: S. M. Greene, Holyoke, Mass.; Monongahela River Cons. Coal & Coke Co., Pittsburg; George S. Mills, Toledo, O.; Eugene Dietzgen Co., New York City; Babcock & Wilcox, Barberton, Ohio; J. W. Gaddis, Vincennes, Ind.; Multi-Color Copying Co., Detroit, Mich.; American Steel & Wire Co., Joliet, Ill.; Thomson Stationery Co., Vancouver, B. C.

THE GENERAL ELECTRIC CO., of Schenectady, N. Y., advises that following the defeat of municipal ownership at the recent election in Chicago the Chicago City Railways Co. purchased of the General Electric Co. 1,200 direct current railway motors with controlling apparatus for the operation of 300 new cars. Power for the new rolling stock will be supplied by additional electrical generating machinery aggregating 6,000 HP. Each car will be equipped with four 40-HP. motors, this size of motor being the standard for urban railways.

THE C. W. HUNT CO., West New Brighton, N. Y., manufacturers of coal handling machinery, have arranged so that immediate attention is given to orders or for emergencies, during holidays or after business hours. Call on long distance telephone at any hour. D. H. Gildersleeve, Sales Manager, Telephone No. 621, or C. M. Steinrock, Traffic Manager, Telephone No. 89 J, West New Brighton, N. Y. Telegraphic messages addressed to D. H. Gildersleeve, West New Brighton, N. Y., will be delivered to his residence after business hours and receive immediate attention.

B. F. STURTEVANT CO., of Boston, Mass., include among their recent sales of high pressure rotary type blowers the following: Link-Belt Co., Chicago, Ill.; Seybold Machine Co., Dayton, O.; Hammond Glue Co., Hammond, Ind.; Whitin Machine Works, Whitinsville, Mass.; Phoenix Bridge & Iron Works, Montreal, P. Q.; Hawley Down Draft Furnace Co., Chicago, Ill.; McGill University, Montreal, P. Q.; Carr Engineering Co., Los Angeles, Cal.; Whiting Foundry Equipment Co., Harvey, Ill.; James J. Andreson, Chicago, Ill., and Watson-Stillman Co., Aldeno, N. J.

The CONSOLIDATED EQUIPMENT CO., of 17 Battery Pl., New York, has been appointed selling agent for the Emerson pump. This company's well known triple vertical cylinder contractor's pump will be supplemented by a new product—the Emerson Junior. This latter is made with but a single cylinder, weighs but 219 pounds, and has a capacity of 100 gal. per min., against a 25-ft. head, and about half this capacity on a 100-ft. head. A stock of regular and Junior Emerson pumps will be kept on hand in New York and at the factory in Alexandria, Va., which is to be enlarged to accommodate this new design.

THE POWER SPECIALTY CO., 111 Broadway, New York City, reports the following recent contracts secured for Foster Superheaters, which include those from the following for installation in the various best known types of water tube boilers: West Virginia Pulp & Paper Co., Mechanicsville, N. Y., and Piedmont, W. Va., 5,400 HP.; Denver Gas & Electric Co., 3,000 HP.; U. S. Naval Proving Ground, Indian Head, Md., 1,000 HP.; Virginia Passenger & Power Co., Richmond, Va., 1,800 HP.; Norfolk Navy Yard, 1,400 HP.; Mineral Wells Electric System, Mineral Wells, Tex., 750 HP.; Newport News Shipbuilding & Dry Dock Co., 3,000 HP.

THE NEW YORK OFFICE of the B. F. Sturtevant Co., Boston, has just been removed from 131 Liberty St. to the Engineering Building, 114 Liberty St., where much better facilities will be provided for conducting the rapidly increasing business of this well-known company. Among recent sales of generating sets made by the B. F. Sturtevant Co. are the following: Isador Fajans, New York City; Augusta Lumber Co., Augusta, Me.; Norfolk & Washington Steamboat Co., Newport News, Va.; North Packing & Provision Co., Somerville, Mass.; Fisheries Co., Philadelphia, Pa.; Lincoln Mfg. Co., Fall River, Mass., and Hudson Companies, New York City.

MISSISSIPPI GLASS CO. announces that it has purchased the Sergeant Glass Co.'s plant at Kane, Pa., and will operate it in manufacturing rolled, figured, polished plate and "wire glass." The actual purchase price is not stated, but it covers the factory, sand quarries, water rights, workmen's dwellings and about 500 acres of land. The company states that with this new plant and its facilities added to its Latrobe, Port Allegany, Morgantown and St. Louis factories the Mississippi Company becomes the world's largest producer of flat glass—rolled, figured, corrugated, prism and "wire glass"—having a capacity of 30,000,000 sq. ft. per annum.

THE ABNER DOBLE CO., Engineers, of San Francisco, has appointed Mitsui & Co. to act as their sole agents in Japan and its territories, Korea, China and Manchuria, for the sale of Doble Tangential Water Wheels and hydraulic apparatus. The industrial development that is now taking place in the Orient, and the increasing demand for high-grade water wheel machinery will make this co-operative arrangement an advantageous one for both parties. Mitsui & Co. is the largest and most progressive engineering house in the Far East, and with its thirty-five branch offices is in a particularly good position to handle the water wheel products of the Abner Doble Co.

BUELL & MITCHELL, 120-122 Liberty St., New York, announce the opening of their Boston office at 70 Kilby St., Mr. Henry W. Nutt, Boston Manager. Their business as contractors and experts in steel for building and bridge construction and for manufacturing purposes is now enlarging so rapidly as to require this extension enabling them to give closer attention to the large requirements of their customers in the Eastern and New England States. Announcement is also made of their appointment as New England representatives of the Rogers Shear Co., Warren, Pa., for the exclusive sale of the output of high elastic limit round, square and twisted concrete steel bars to which the works at Franklin are entirely devoted.

THE EPPING-CARPENTER CO., manufacturers of pumping machinery, Pittsburg, Pa., have made a change in their New York representation, Chas. T. Henry Co., of 141 Broadway, being no longer their agents, the company having opened an office at 90 West St., in the new West Street Building, in charge of Messrs. F. B. Slocum and George B. Ferrier, Jr. Both the company and its New York representatives take this opportunity to assure intended purchasers in advance of their appreciation of inquiries, and the trade who may have the opportunity are invited to call on them and inspect their new suite of offices on the thirteenth floor of the building named, to address them by mail or call them by 'phone, their number being Cortlandt—6300.

The McCRUM-HOWELL CO., manufacturers of "Richmond" boilers and hot air furnaces, "Uniontown" radiators and "Penn" enameled ware, with headquarters at 46 and 48 East 20th St., New York City, is about to place on the market its new line of improved "Richmond" sectional boilers and its improved "Richmond" round boilers for steam and hot water heating. These new boilers have been made from designs and models furnished by the patentee, William M. Mackay, who is a past president and now secretary of the American Society of Heating and Ventilating Engineers. The McCrum-Howell Company has secured the exclusive services of Mr. Mackay in an advisory capacity, in connection with the designing and building of house heating boilers and radiation.

THE ALLIS-CHALMERS CO., Milwaukee, Wis., advises that the City of Marshfield, Wis., has practically finished the building for housing its new electric light and water works plant, and has now begun the installation of equipment. Concrete foundations have been prepared for supporting two Allis-Chalmers Reliance Belted Engines, which will be used to drive two Allis-Chalmers alternating current generators, one of 225 KW. capacity and the other of 100 KW. The engines are 14-in. × 30-in. and 18-in. × 42-in. respectively, and the generators are 60 cycle, 3-phase machines. Of these two units the smaller will be used to carry the stations day load, leaving the larger portion of the lighting load for the larger machine. Three new 150-HP. boilers of the horizontal tubular type, 72-in. × 18 ft. will generate steam for the operation of the station.

W. B. SCAIFE & SONS CO., Pittsburg, Pa., announce that after continued success with the We-Fu-Go water softening and purifying systems, the Illinois Central R. R. Co. just placed the eighth and ninth contracts for We-Fu-Go water softening and purifying systems, a 300,000 gallon per day plant for Manchester, Ia., and a 400,000 gallon per day plant for Waterloo, Ia. Among some of the recent orders placed for We-Fu-Go and Scaife water softening and purifying systems are the American Steel & Wire Co., Donora, Pa., 12,500-HP. We-Fu-Go system; American Sheet & Tin Plate Co., Cambridge, O., 1,000-HP. We-Fu-Go system (17th contract); The Woodward Iron Co., Woodward, Ala., a 10,800 HP. We-Fu-Go system; for the Minneapolis, St. Paul & Sault Ste. Marie R. R. Co., a 250,000-gal. per day We-Fu-Go continuous system; for the Coshocton Straw Paper Co., a 500-HP. Scaife system.

THE CROCKER WHEELER CO., Ampere, N. J., advise us that the largest order for steel rails ever placed with a single concern was made public May 11. This was the order for 150,000 tons of steel rails placed by the Harriman lines with the Tennessee Coal & Iron Co. for delivery after March, 1908. In order to handle its greatly increased business the Tennessee Coal & Iron Co. has just placed an order with the Crocker-Wheeler Co. for the complete electric motor equipment of its new steel rail mill at Birmingham, Ala. The Crocker-Wheeler Co. has recently been obliged to open an office in Birmingham to handle the rapidly increasing business in this section. The order includes fifteen Crocker-Wheeler Form W Rolling Mill Motors. The line of Form W Motors is designed for the arduous service of rolling mills, and has attracted very favorable attention in the steel world for its ruggedness and simplicity of design. The order aggregates about 575 HP.

THE FULLER ENGINEERING COMPANY, Allentown National Bank Building, Allentown, Pa., has been recently incorporated for the purpose of acting as consulting engineers especially in connection with the manufacture of cement. This company controls the various Matcham patents, including the preliminary dryers for utilizing the waste gases from the kilns, for drying the raw materials; the natural draft cooler for cooling the clinker, utilizing natural draft instead of forced draft, thereby eliminating all blowers and power required, that are now used in the present methods. The Matcham coal dryer, which is the most economical dryer on the market, in which the gases from the furnace under said dryer are carried around and through the dryer, thereby utilizing the largest percentage of the heat generated, making it a very efficient dryer. They also control the Matcham natural draft burning system in which the pulverized coal is drawn into the kiln by natural draft instead of forcing it in by means of blowers. The members of the above company are: C. A. Matcham, President, who was formerly General Manager of the Lehigh Portland Cement Company; J. W. Fuller, Jr., General Manager, and H. G. Barnhurst, Mechanical Engineer. This company is now ready to make reports on properties, estimates on costs, and design cement plants complete.

THE ALMA CEMENT CO., C. H. Zehnder, President, with offices in West Street Building, New York City, are remodeling their plant at Wellston, Ohio, increasing their capacity to 1,800 barrels daily. Fuller-Lehigh Mills have been installed on both the raw and clinker ends; ten in the raw department and thirteen in the clinker mill. These mills, with the four of the same type in the coal house which have been in service about three years, are doing all the pulverizing. This plant was started on April 15, and there is a notable improvement in the cleanliness of the plant, as with a little care these mills are practically dustless. In addition to the above the company is installing two 300-HP. Wickes vertical type boilers; one 20-32 × 42 Wetherill tandem compound Corliss engine, direct connected to a Bullock 400-KW. generator; one new Vulcan 7 ft. and 6 ft. × 60 ft. rotary kiln; new pump and heater; D'Olier switchboard, wiring, etc.; also a number of Westinghouse motors. This plant, with the improvements above mentioned, will compare favorably with any now in operation. The pulverizing mills have been installed and are now running, but the full capacity of the plant will not be reached until the power equipment is complete. The improvements have been laid out and the work is being carried on under the supervision of the Fuller Engineering Co., of Allentown, Pa. Mr. James T. Phelan, Superintendent of the works, is directly in charge of the work and it is now being rushed to a completion.

TRADE PUBLICATIONS.

STEAM PUMPS.—The Emerson Steam Pump Co., Prince St. and Strand, Alexandria, Va. Paper; 6 × 9 ins.; pp. 20; illustrated.

The publication contains copies of testimonials from users of the Emerson pump.

PAINTS.—Joseph Dixon Crucible Co., Jersey City, N. J. Paper; 6¼ × 3½ ins.; pp. 11; illustrated.

"Spring Painting" is the title of this booklet, which refers very briefly to paints suitable for painting bridges, fences, etc.

COAL HANDLING MACHINERY.—The C. W. Hunt Co., West New Brighton, N. Y. Paper; 6 × 9 ins.; pp. 30; illustrated.

The line of machinery handled by this concern is described in detail, with many tables of data.

ELECTRICAL CONSTRUCTION SUPPLIES.—The Fletcher Mfg. Co., Dayton, Ohio. Catalogue No. 562. Paper; 6 × 9 ins.; pp. 65; illustrated.

This catalogue shows a line of overhead construction supplies.

CORLISS ENGINES.—Minneapolis Steel and Machinery Co., Minneapolis, Minn. Brochure No. 101. Paper; 6 × 9½ ins.; pp. 36; illustrated.

General construction and details of valve gear are pictured and described.

ELECTRIC MOTORS.—The Barriet Electric Mfg. Co., Cincinnati, Ohio. Bulletin 5. Paper; 7½ × 10 ins.; pp. 12; illustrated.

This pamphlet describes a line of fully and partially enclosed motors from ¼ to 20 HP., with tables of ratings and dimensions.

PAPER FILING CABINETS.—The Folding Paper Box Co., South Bend, Ind. 4-page folder, 8½ × 11 ins.; illustrated.

A variety of filing cabinets and supplies, including various index cards, envelopes, etc., are described and priced in this folder.

FAN MOTORS.—General Electric Co., Schenectady, N. Y. Bulletin 4495. Paper; 8 × 10½ ins.; pp. 40; illustrated.

This is an art catalogue describing the 1907 line of fan motors. The cover design is especially pleasing and attractive.

PROTECTIVE PAINTS.—Hammond-Boynton Paint & Chemical Co., Norwich, Conn. Paper; 3½ × 6 ins.; pp. 8.

This is a booklet descriptive of "Ferox" paints for the protection of iron and steel from corrosion; it contains color cards showing four colors.

WATERPROOFING.—E. J. Winslow Co., 138 Jackson Boulevard, Chicago. Circulars, 8½ × 11 ins. and 6 × 9½ ins.

These circulars record the efficiency of the hydrolithic system of fireproofing in keeping dry the deep basement of the Union Bank Building at Pittsburg during the recent flood.

STEAM PACKING.—The Crane Co., Chicago. Circular No. 29; paper; 3½ x 6 ins.; pp. 40.

This brief circular exploits "Klingerit," a heat proof, indestructible packing specialty for high pressure and particularly superheated steam.

CENTRIFUGAL PUMPS.—R. D. Wood & Co., Philadelphia. Paper; 6 x 9 ins.; pp. 40; illustrated.

This amply illustrated bulletin covers pumps for water-works and high pressure fire service. Tables and statistics supplement the descriptive matter.

MAGNETIC BLOWOUT CONTROLLERS.—The Von Zweigbergk Controller Co., Cleveland, O. Bulletin No. 2. Paper; 7 x 10 ins.; pp. 4; illustrated.

This bulletin describes a waterproof form of controller for intermittent service with cranes, hoists, etc.

NEW MACHINISTS' TOOLS.—Brown & Sharpe Mfg. Co., Providence, R. I. Paper; 6 x 9 ins.; pp. 8; illustrated.

The tools described in this pamphlet are all for use in the laying out of machine work; some of these possess features of considerable novelty and convenience.

PIPE FITTINGS AND VALVES.—Crane Co., Chicago. Paper; 4 x 6½ ins.; pp. 96; illustrated.

This pamphlet is intended as a supplement to the complete catalogue of Crane Standard Valves and Fittings. This catalogue shows special appliances for steam and water.

ELECTRIC PUMPING PLANTS.—General Electric Co., Schenectady, N. Y. Bulletin 4496. Paper; 8 x 10½ ins.; pp. 4; illustrated.

This bulletin describes electric pumping installations at Buffalo and Scotia, N. Y. The former is of 25,000,000 gals. capacity and the latter of 172,000 gals.

ELECTRIC PROPELLER FANS.—B. F. Sturtevant Co., Hyde Park, Mass. Bulletin 146. Paper; 6½ x 9 ins.; pp. 8; illustrated.

Suggestions for the use and proper types of ventilating fans are herein given with tables of maximum speeds for sizes of blades and of dimensions.

TARRED ROOFING FELT.—Barrett Mfg. Co., New York, Chicago, etc. Paper; 6 x 9 ins.; pp. 4; illustrated and including sample.

"Barrett Specification" roofs are set forth, and the specification reprinted in full. A sample of B. S. tarred felt is bound in the back of the pamphlet.

SEWER PIPE, FLUE LINING, ETC.—Monmouth Mining & Mfg. Co., Monmouth, Ill. Paper; 3½ x 6½ ins.; pp. 8; illustrated.

This is an illustrated price-list of vitrified sewer pipe and fittings, wall coping, flue and chimney lining, chimney tops, and draintile and fittings.

ROCK CRUSHERS. — Allis-Chalmers Co., Milwaukee. Bulletin No. 1423. Paper; 8 x 10½ ins.; pp. 4; illustrated.

This bulletin describes Gates breakers with short head and concaves for fine crushing. A table gives the size of stone each crusher will take and also the smallest product each will deliver.

WOOD PRESERVER.—Carbolineum Wood Preserving Co., 349 West Broadway, New York City. Paper; 8¾ x 6 ins.; pp. 20; illustrated.

This pamphlet contains mostly testimonials showing results of applications of this treatment to various kinds of wooden construction.

VALVES AND FITTINGS.—The Crane Co., Chicago. Paper; 4 x 6½ ins.; pp. 96; illustrated.

This catalog is, as it states, merely an introduction to review briefly and illustrate some of the more important lines of valves, fittings and special appliances made by the company.

STEEL SHEET PILING.—National Interlocking Steel Sheeting Co., 70 W. Washington St., Chicago. Paper; 4 x 9 ins.; pp. 31; illustrated.

The Nye steel piling is shown in a variety of forms; some consisting of single rolled sections and others of built-up sections. Sizes and weights are given.

WROUGHT IRON FENCES.—The Anchor Post Iron Works, 41 Park Row, New York City. Paper; 9 x 11½ ins.; pp. 16; illustrated.

This artistic pamphlet illustrates and describes the art side of iron fence and gateway design. Excellent photographs are given of a number of the company's installations.

MACHINE WORK.—Geo. P. Nichols & Bro., 1090 Old Colony Building, Chicago. Paper; 6¼ x 3½ ins.; pp. 4; illustrated.

This firm builds transfer tables and bridge and other special machinery. The pamphlet consists mainly of a description of the machine shop and the facilities for general machine work.

DREDGE BUCKETS.—The Kiesler Co., Chicago. Paper; 6 x 9 ins.; pp. 16; illustrated.

In this booklet two types of bucket, the clam shell and the orange peel, each with special leverage features, are described. Cuts of operating installations supplement the text, and tabulated specifications are given.

BUSINESS OPPORTUNITIES.—The Northern Pacific Ry. (C. W. Mott, General Emigration Agent), St. Paul, Minn. Paper; 6¾ x 9¼; pp. 102.

This pamphlet gives lists of openings of business locations along the railway. It also gives particulars of the population, industries and resources of towns along the line.

CONVEYING MACHINERY.—Jeffery Manufacturing Co., Columbus, Ohio. Catalogue No. 57 B; paper; 6 x 9 ins.; pp. 72; illustrated.

This catalogue gives many illustrations of Jeffery conveyors in operation. There is very little text. These conveyors are designed for handling logs, lumber, sawdust, shavings, refuse, railway ties, etc.

LIFTING JACKS FOR QUARRIES.—The Joyce-Cridland Co., Dayton, O. Paper folder; 4 x 9 ins.; pp. 8; illustrated.

Stone yard and quarry owners will find material in this folder to interest them. The jacks described, entirely for stone-lifting use, are of the lever, geared lever, double movement screw, rapid movement screw and hydraulic types.

AUTOMATIC FLUSHING SIPHONS.—The De La Hunt Flush Tank Co., Cedar Rapids, Ia. Paper; 5½ x 8 ins.; pp. 20; illustrated.

These siphons are for flushing sewers, septic tanks, etc., and different forms are illustrated and described. Prices, dimensions and instructions for installing the apparatus are given, as well as a number of testimonials.

ELECTRIC MOTORS.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1057. Paper; 8 x 10½ ins.; pp. 16; illustrated.

This bulletin describes type "K" direct current motors, which have superseded types "U" and "B" heretofore built by this company. These machines are made in sizes ranging from ½ to 80 HP. for voltages of 110, 220 and 500 volts.

TURRET LATHES.—Gisholt Machine Co., Madison, Wis. Paper; 8 x 10 ins.; pp. 16; illustrated.

This concern purchased the drawings, patterns, etc., of the American Turret Lathe Mfg. Co., who were the manufacturers of the American Semi-Automatic Turret Lathe. This catalog is devoted to this machine as now built by the Gisholt Machine Co.

PORTLAND CEMENT.—Universal Portland Cement Co., Chicago, Ill. Paper; 6 x 9 ins.; pp. 70; illustrated.

This pamphlet contains mainly a collection of excellent half-tone engravings of bridges, buildings and other structures in which the company's cement has been used. There are also some testimonials, records of tests and standard specifications of Portland cement.

DIRECT CURRENT GENERATORS.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1059. Paper; 8 x 10½ ins.; pp. 12; illustrated.

Direct current generators, intended for general light and power service and designed for direct connection to steam, gas or oil engines, are herein described. Minor mechanical construction is discussed in some detail.

RHEOSTATS AND CONTROLLERS.—The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Paper; 5 x 8 ins.; pp. 24; illustrated.

These sheets are unbound supplements and additions to the Cutler-Hammer loose-leaf bulletins. The subjects are: Starters for alternating current motors, controllers for cranes, hoists, elevators, machine tool motors, etc.

PACKAGE CONVEYING SYSTEMS.—Robins Conveying Belt Co., 13-21 Park Row, New York. Special Bulletin No. 44. Paper; 4 x 9 ins.; pp. 4; illustrated.

Descriptive of the installation of the package delivery system in the new store of B. Altman & Co., Fifth Avenue, New York. Details and dimensions given are very clear and complete.

STEAM HEATING BOILERS.—The McCrum-Howell Co., 46 and 48 East 20th St., New York. Paper; 6 x 9 ins.; pp. 16; illustrated.

This pamphlet consists of advance sheets of a trade catalogue giving general descriptions of the various types of "Richmond" heating boilers, and tabulated data of capacities and prices.

FIREPROOF CAR CEILINGS.—The Indestructible Fibre Co., Wendell & MacDuffie, Sole Agents in Transportation Field, 26 Cortlandt St., N. Y. Paper; 4 x 9 ins.; pp. 4; illustrated.

Descriptive of "Fibrite," "Durite" and "Kantlite," fiber board materials, designed for the ceilings of railroad and street cars and for paneling the cabins of steamboats.

"MODERN PROSPECTING" WITH DIAMOND DRILLS.—The Sullivan Machinery Co., Railway Exchange, Chicago. Paper; 5½ x 3¼ ins.; pp. 16; illustrated.

This little brochure is mainly a reprint of an article in the Bisbee (Ariz.) Daily Review of Jan. 21, 1906; well supplemented by photographs of local and other workings. It is not a catalog, merely supplementing the special drill catalog of the company.

WATERPROOFING CONCRETE AND MASONRY.—Theodore F. Koch, 1025 Unity Building, Chicago. Paper; 5½ x 8¼ ins.; pp. 4.

This Bitumen Emulsion is a German invention which is being introduced in this country and has already been used to some extent. It is mixed with cement mortar or cement concrete to form a waterproof coating for old or new masonry or concrete.

BOILER FEED WATER PURIFICATION.—The Marion Incline Fitter and Heater Co., Marion, Ohio. Catalog G-1. Paper; 6 x 9 ins.; pp. 32; illustrated.

This catalog contains a general consideration of feed water heaters, oil separation, filter and chemical reagent system of purification, and water softening. The construction of the Marion apparatus is shown by half-tones and reduced drawings.

COOLING TOWERS.—Alberger Condenser Co., New York City. Catalogue No. 7; paper; 6 x 9 ins.; pp. 32; illustrated.

After discussing the application and advantages of cooling towers, the booklet describes the Alberger fan and natural draft ventilated cooling towers. A little space is given condensers, vacuum pumps, feed water heaters and pumping engines.

GAS ENGINES.—Jacobson Machine Mfg. Co., Warren Pa. Cloth; 7½ x 6¾ ins.; pp. 108; illustrated.

After a description of the principles on which gas engines work, the publication contains instructions for installing and operating this company's engines. There then follows a description of the various engines manufactured and tables of useful information.

REINFORCED-CONCRETE CONSTRUCTION.—Reinforced Concrete Construction Co., St. Louis, Mo. Paper; 6¾ x 5 ins.; pp. 79; illustrated.

The first part of this catalogue is given up to an impartial and thorough discussion of the various principles and theories of reinforced concrete designs. The second part illustrates the typical constructions in use by this company, the most of them being in fine building construction.

"A STUDY IN GRAPHITE."—Jos. Dixon Crucible Co., Jersey City, N. J. Paper; 6 x 9 ins.; pp. 43; illustrated; 25 cts.

This is a handsome booklet embodying a very complete report by Prof. W. F. M. Goss, of Purdue University, with results of tests made by him. It is copiously illustrated and supplemented by tables and curves. It may well be used as a supplementary text-book by technical schools.

SWITCHSTANDS.—American Valve & Meter Co., Cincinnati, Ohio. Paper; 9½ x 12 ins.; pp. 8; illustrated.

The Anderson switchstand here described is made with a triple-arm connection so that in case of breakage the switch can be quickly re-connected. This connection is purposely made the weak point, so that the cost of repairs would be very light. It is made for use at main track or yard switches.

AUTOMATIC WEIGHING SCALES.—The Avery Scale Co., North Milwaukee, Wis. Paper; 5¾ x 8¾ ins.; pp. 24; illustrated.

These scales are intended especially for weighing coal at coal yards, power-houses, etc. Some are track scales, while in others the coal is delivered into hoppers which discharge it when a certain load is reached. Various styles are shown, while the illustrations show their application in this and other countries.

ELECTRIC BONDING FOR RAILS.—The Electric Railway Improvement Co., 6005 Carnegie Ave., Cleveland, Ohio. Paper; 6¼ x 8¾ ins.; pp. 16; illustrated.

This company operates under the Wherry and Thompson patents for electric welding and brazing in the installation of rail bonds. The pamphlet describes the processes and a portable plant for bonding rails in the track.

AUTOMATIC COAL SCALES.—The Avery Scale Co., North Milwaukee, Wis. Catalogue No. 14. Paper; 6 x 8½ ins.; pp. 24; illustrated.

Automatic coal weighing as applied to hoppers, trucks, cranes and for checking boiler consumption is treated. Capacities and dimensions of apparatus are tabulated. Cuts show the machinery in commercial practice.

ORE CONCENTRATION TABLE.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1421; paper; 8 x 10½ ins.; pp. 20; illustrated.

After describing the Overstrom patented, diagonal table, the bulletin discusses the advantages of a diagonal tab... r the regular rectangular table. Some o... ese are long feed box, smaller vacant o... ffective concentrating surface, and c... of flow of wash water.

REINFORCED CONCRETE ...DGES.—National Bridge Co., I... polis, Ind. Paper; 6 x 9 ins.; pp. 9... strated.

This company has built a ... number of reinforced concrete arches, ... pally in the middle West, under what ... own as the Lutern patent. The spec... of this design consists in connecting ... under the bed of the river which the a... pans. These rods act as a tie between th... abutments to offset the arch thrust.

CONCRETE RETAINING ...LLS.—The Concrete Steel Retaining ... Co., Cincinnati, O. Paper; 6 x ...; pp. 24; illustrated.

Mr. E. V. Bone has dev... a theory of design and construction of ...forced-concrete non-buttressed T-walls ... is being used in the work of this c...ny. This pamphlet gives a brief outline ... this theory, together with descriptions of ...eral walls which have already been bu...

For other Proposal Advertisements see pages 55, 56, 57, 58, of Advertisements and Construction News page 194.

STEEL BRIDGE SUPERSTRUCTURE.

Parkersburg, W. Va.

Sealed proposals, addressed to the President of the Parkersburg & South Side Bridge Co., Parkersburg, W. Va., will be received until 12 o'clock noon, Monday, June 10th, 1907, for the construction and erection of the superstructure of a Steel Highway Bridge across the Little Kanawha River, at Parkersburg, W. Va., in accordance with plans and specifications on file in the office of the Engineer for the Parkersburg & South Side Bridge Co. at Parkersburg, W. Va.

The total length of the bridge is 808 ft., consisting of one 300 ft. span, two 120 ft. spans and five girder spans, approximately 53 ft. in length.

The Parkersburg & South Side Bridge Co. reserves the right to reject any and all bids.

21-1t By C. H. SHATTUCK, Pres.

OFFICE COMMISSIONERS, District of Columbia, Washington, May 21, 1907.—Sealed proposals will be received at this office until 12 o'clock M., Saturday, June 8, 1907, for furnishing water meters. Forms, specifications and necessary information may be obtained at Room 43, District Building, Washington, D. C. HENRY B. F. MACFARLAND, HENRY L. WEST, JAY J. MORROW, Commissioners, D. C. 21-2t

PROPOSALS FOR REPAIRING JETTIES.—U. S. Engineer Office, 813 Prospect Ave., S. E., Cleveland, O., May 21, 1907.—Sealed proposals for Stone Reinforcement and Repair of Jetties at the Harbors of Port Clinton, and Vermilion, Ohio, will be received at this office until 2 P. M., Standard Time, June 20, 1907, and then publicly opened. Specifications, blank forms and all available information will be furnished on application to this office. C. McD. TOWNSEND, Lieut.-Col., Corps of Engineers, U. S. A. 21-4t

SITUATIONS OPEN

WANTED—Two first-class hustling track foremen for ballasting. Also one good pit foreman for steam shovel work. Wages according to ability. I. M. LUDINGTON, Contractor, Clyde, N. Y. 21-1t

WANTED—First-class rodman; should also be good draftsman, and able to handle instruments on ordinary work. Good opening for the right man. Address "P. B. 21," Engineering News, New York. 21-2t

WANTED — Engineer with experience on both the design and construction of water systems, sewer system, and other general engineering. Permanent position. Address "S. C. 20," Engineering News, New York. 20-1t

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Four "Hayward" Clam Shell Buckets

Two 1⅝-yd. Class "E." Will sell for $500 each.

Two 1-yd. Class "C." Will sell for $400 each.

Complete, with chain and all necessary appliances. Have been used about three weeks. Address "R. B. 21," Engineering News, New York. 21-2t

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